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Tri-Party Agreement Milestone Summary

June 1993

Date Published
July 1993

Prepared for the U.S. Department of Energy



**Westinghouse
Hanford Company**

P.O. Box 1970
Richland, Washington 99352

Hanford Operations and Engineering Contractor for the
U.S. Department of Energy under Contract DE-AC06-87RL10930



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PREFACE

The *Tri-Party Agreement Milestone Summary Report* is issued monthly by the U.S. Department of Energy, Richland Field Office (RL). The report provides a summary progress and financial status for each active *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) major milestone and its related interim milestones that are active in the current 12-month period. Of the 259 planned interim milestones due by June 30, 1993, 253 were completed. Four other milestones have been completed early.

The following Tri-Party Agreement major milestones have been completed and are not included in this report:

		<u>Completed</u>
M-12-00	Submit remedial investigation/feasibility study (RI/FS) or <i>Resource Conservation and Recovery Act</i> (RCRA) facility investigation/corrective measures study (RFI/CMS) work plan for 15 operable units.	6/30/92
M-21-00	Submit RCRA interim status compliance assessments for all treatment, storage, and disposal units.	4/30/89
M-22-00	Establish enforceable compliance action schedules.	12/29/89
M-23-00	Complete interim status corrective actions.	9/30/91
M-25-00	Provide annual reports of in-progress studies or efforts to identify alternatives to land disposal of radioactive mixed waste	Deleted*
	*M-25-00 was deleted 3/31/92 and requirements combined with revised Tri-Party Agreement milestone M-26-00.	
M-27-00	Submit all aggregate area management study reports (AAMSR) for the 200 areas.	9/29/92
M-28-00	Submit all soils and groundwater background determination documents to U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology).	4/30/92
M-29-00	Submit documentation to EPA and Ecology describing Hanford Site risk assessment methodology.	3/31/92

TRI-PARTY AGREEMENT BUDGET BASELINE SUMMARY JUNE 1993

(\$ in Millions)

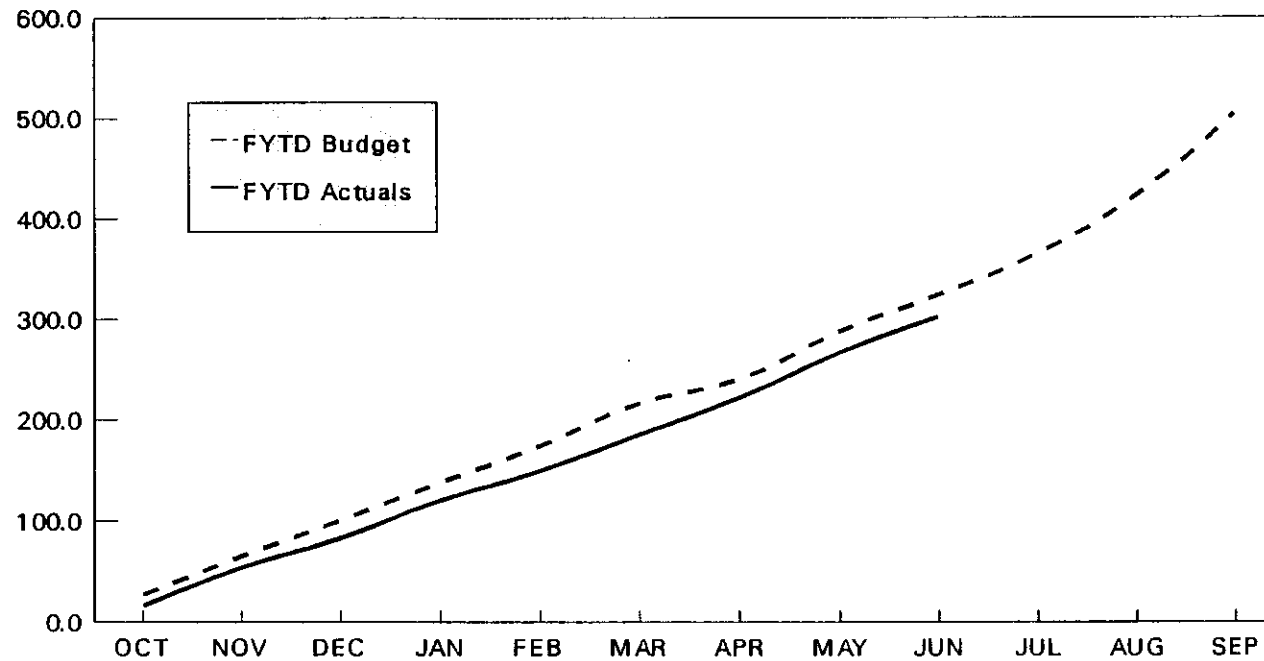
<u>MAJOR MILESTONE</u>	<u>FYTD BUDGET</u>	<u>FYTD COST</u>	<u>SPENDING VARIANCE</u>	<u>ANNUAL BUDGET</u>
M-00 *	14.3	11.5	3.5	19.6
M-01	27.3	25.9	1.4	37.3
M-02 *	12.4	11.2	1.2	27.9
M-03 *	80.8	78.4	2.4	130.0
M-04	0.1	0.0	0.1	0.1
M-05	6.2	6.2	0.0	9.8
M-06 *	2.4	1.9	0.5	2.9
M-07	3.5	3.3	0.2	5.0
M-08	1.6	1.4	0.2	2.4
M-09	5.2	4.5	0.7	6.4
M-10	17.8	17.7	0.1	23.6
M-11	9.0	8.8	0.2	14.0
M-12	0.4	0.3	0.1	0.5
M-13	0.8	0.7	0.1	1.4
M-14	6.4	8.8	(2.4)	9.6
M-15 *	57.6	52.8	4.8	91.0
M-16	8.4	8.0	0.4	12.0
M-17 *	41.3	34.9	6.4	65.3
M-18	6.2	6.5	(0.3)	7.9
M-19	4.0	3.8	0.2	5.9
M-20 *	6.9	5.2	1.7	12.6
M-24	1.9	2.5	(0.6)	3.6
M-26	0.1	0.1	0.0	0.1
M-30	1.5	1.5	0.0	3.5
M-31	7.9	7.1	0.8	12.3
	<u>324.0</u>	<u>302.3</u>	<u>21.7</u>	<u>504.7</u>

* These milestones include costs from other contractors.

All other milestones are WHC only. \$0.0=less than \$100K.

TRI-PARTY AGREEMENT ALL MILESTONES FY 1993

\$ Millions

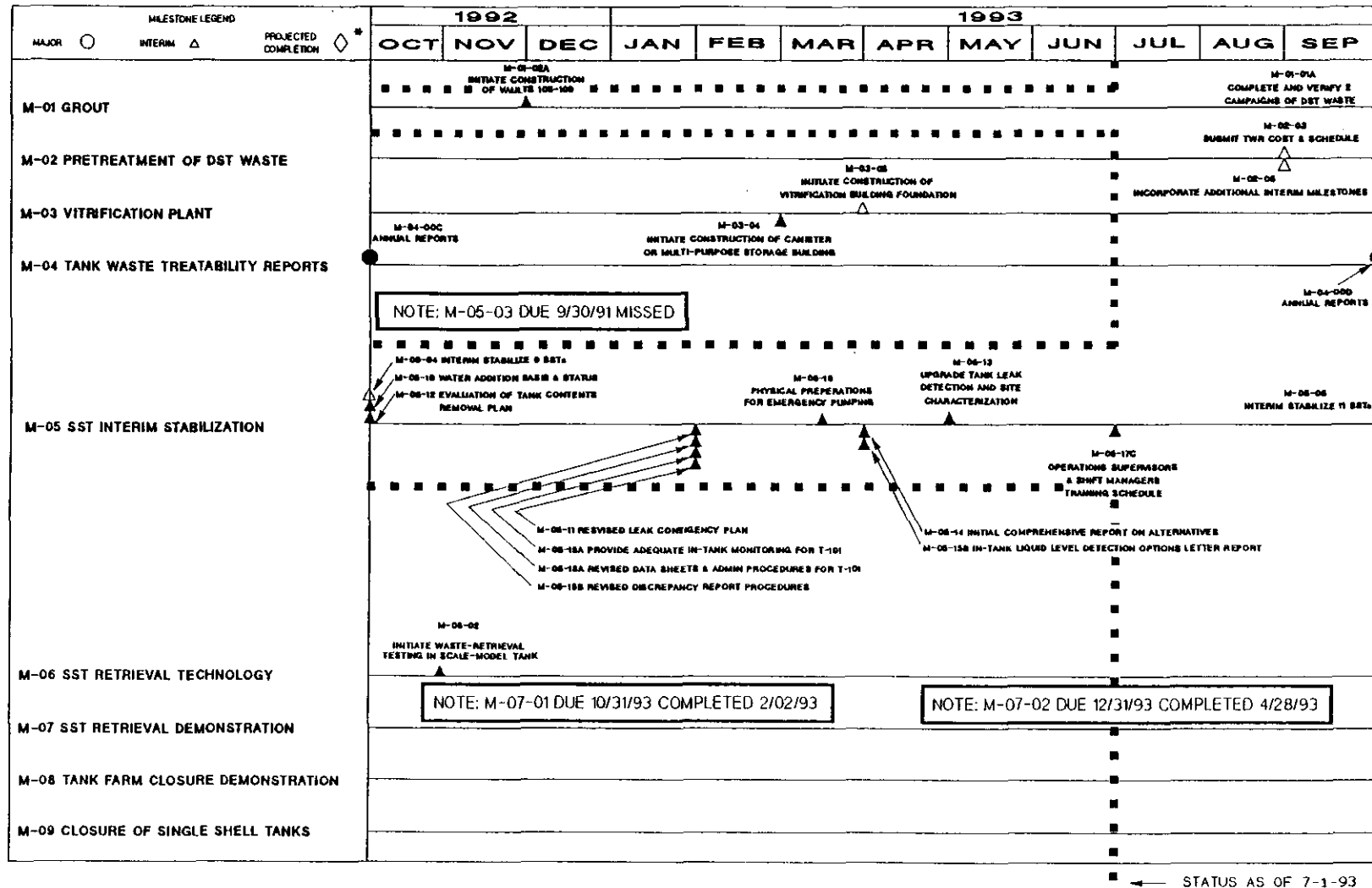


FYTD Budget	27.1	65.2	100.7	138.0	174.2	216.5	240.3	287.7	324.0	365.0	422.3	504.7
FYTD Actuals	16.1	53.8	83.1	120.2	149.6	185.5	221.9	266.6	302.3			
Spending Var	11.0	11.4	17.6	17.8	24.6	31.0	18.5	21.1	21.7			

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TPA MILESTONES

PAGE 1 OF 4



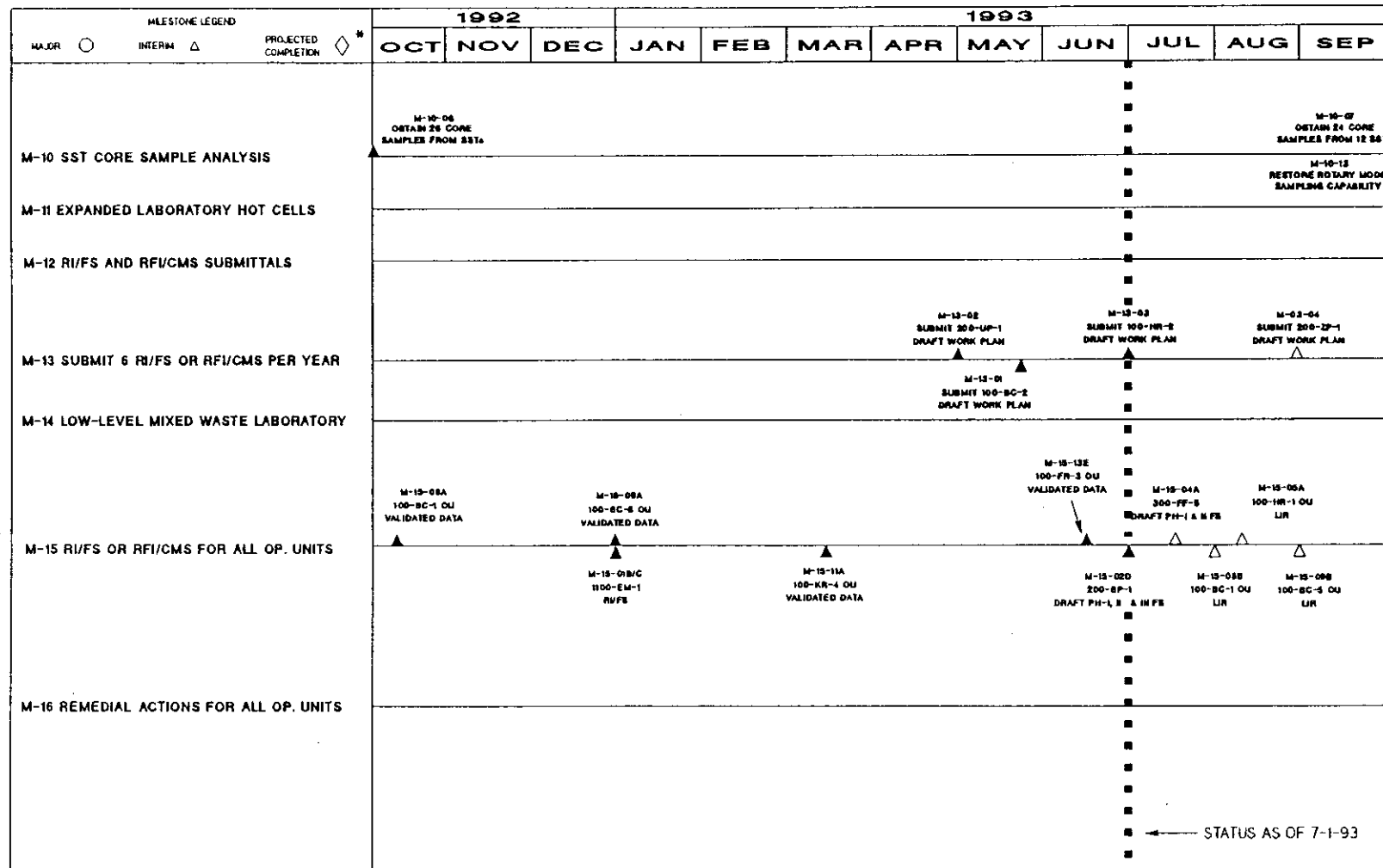
* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

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TPA MILESTONES

PAGE 2 OF 4



* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

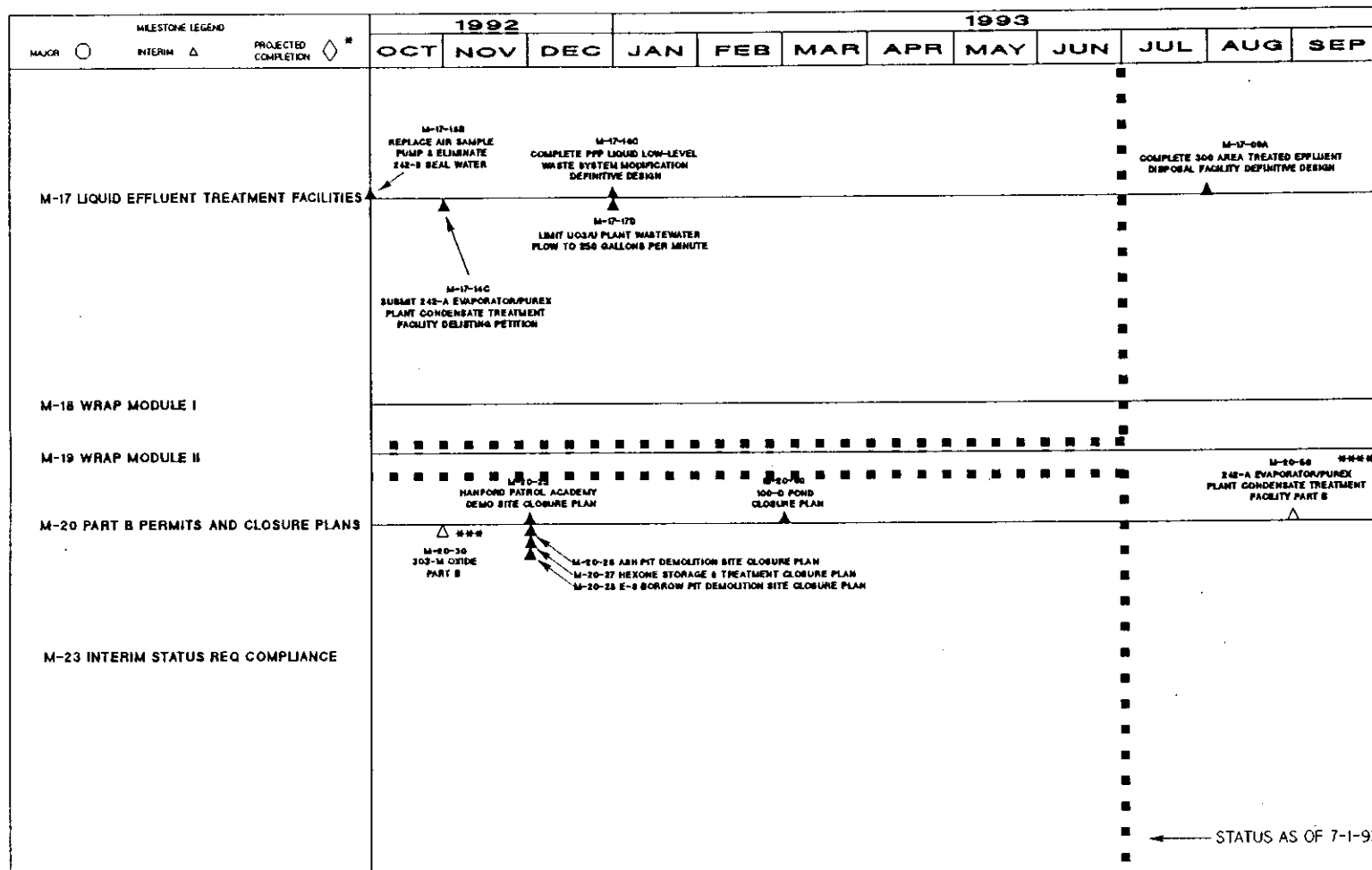
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TPA MILESTONES

PAGE 3 OF 4



* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

** WRAP 2B (TRU WASTE) DELAYED - WRAP 2A (LLW/RMW) PROJECTED TO BE COMPLETED AS SCHEDULED ON 9-30-99

*** REQUEST TO WITHDRAW PART A DENIED; DISPUTE RESOLUTION STARTED.

**** FACILITY CURRENTLY TITLED "200 AREA EFFLUENT TREATMENT FACILITY".

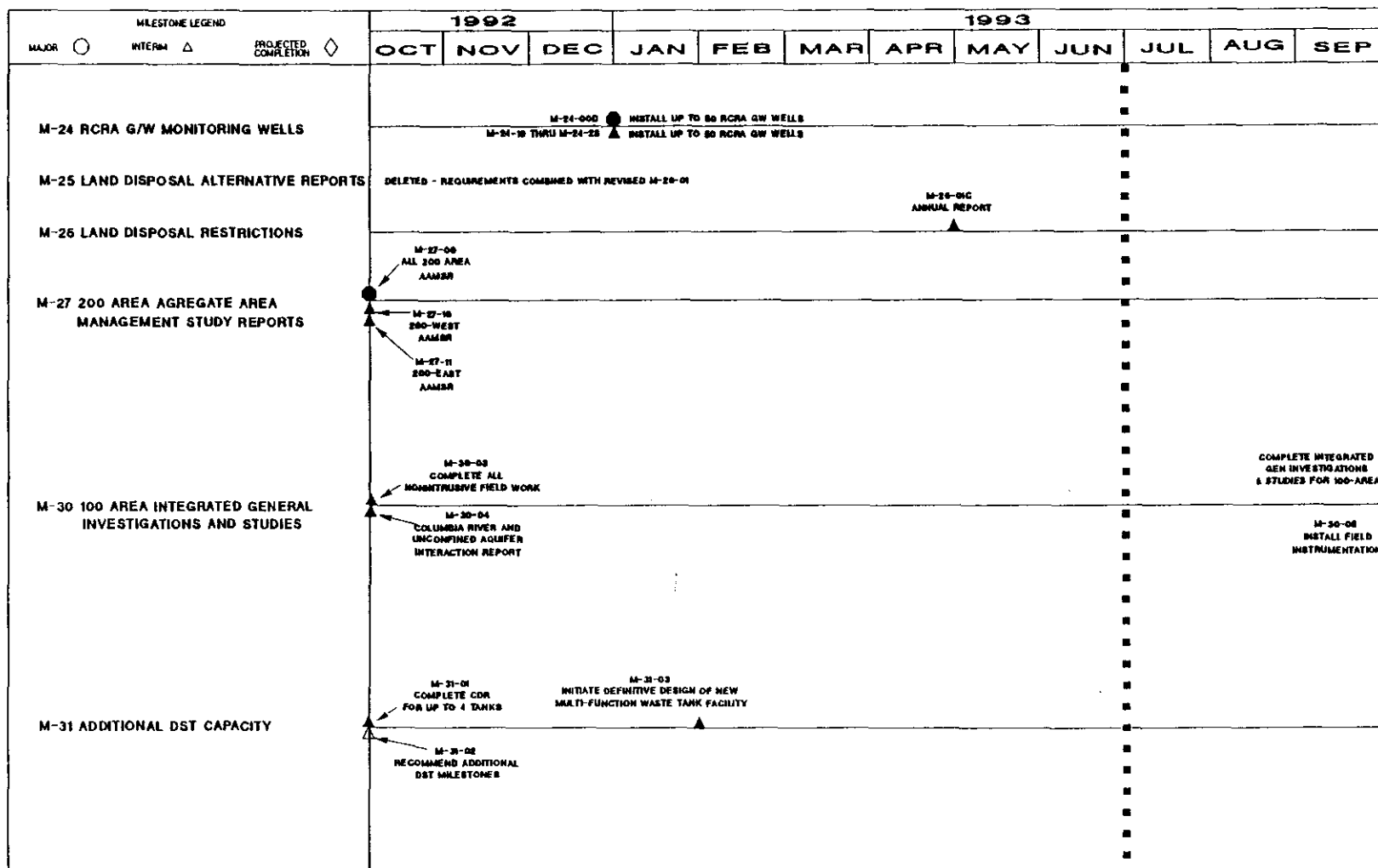
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TPA MILESTONES

PAGE 4 OF 4



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STATUS AS OF 7-1-93

WHC-MR-0403-8

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LIST OF TERMS

CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CY	calendar year
DST	double-shell tank
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
FY	fiscal year
HQ	U.S. Department of Energy, Headquarters
HWVP	Hanford Waste Vitrification Plant
LDR	land disposal restrictions
LFI	limited field investigation
OU	operable unit
PUREX	Plutonium-Uranium Extraction (Plant)
RCRA	Resource Conservation and Recovery Act
RFI/CMS	RCRA facility investigation/corrective measures study
RI/FS	remedial investigation/feasibility study
RL	U.S. Department of Energy, Richland Operations Office
SST	single-shell tank
TBD	to be determined
Tri-Party Agreement	<i>Hanford Federal Facility Agreement and Consent Order</i>
TWRS	tank waste remediation system
WRAP	Waste Receiving and Processing (Facility)
WSCF	Waste Sampling and Characterization Facility

MAJOR MILESTONE: M-01-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: G. H. Sanders **MANAGER:** R. J. Murkowski
BASELINE DATE: December 1996 **PROJECTED DATE:** To be determined (TBD)
DESCRIPTION: Complete 14 grout campaigns.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected*
M-01-01A	Complete and verify two campaigns of double-shell tank (DST) waste (including one campaign of phosphate-sulfate waste).	9/93	10/94
M-01-01B	Complete one additional campaign of DST waste (total is three campaigns including one phosphate-sulfate waste campaign).	12/93	TBD

*Projected date reflects *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) Change Request M-01-92-01A.

ACCOMPLISHMENTS

- Reviewed all surveillance camera videotapes and observed no drips or leaks. Vault 103 successfully passed the rehydrotest. A letter has been sent to U.S. Department of Energy, Richland Operations Office (RL)/Washington State Department of Ecology (Ecology) for their concurrence and approval of the test results.

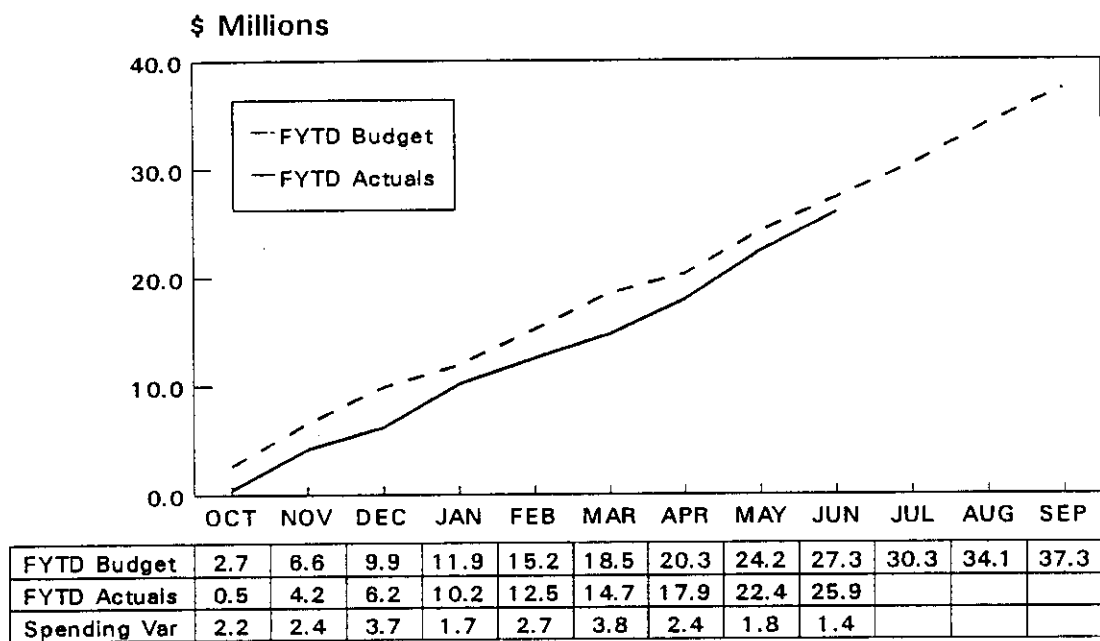
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Place cold cap material in vault 101.
- Continue characterization activities for DST 241-AP-102 in preparation of a data package to be sent to Ecology.
- Complete Grout Treatment Facility capacity study. This study will analyze the logistics on the number of vaults to be filled each year.
- Develop vault 102 campaign plan, which will define the operating envelope.
- Prepare four vault performance assessments for RL review and forward to U.S. Department of Energy, Headquarters (HQ) peer review panel.

- Continue engineering of facility upgrades such as fire protection, Grout Processing Facility computer modifications, ventilation heat trace, lube oil, sanitary water, and fire system water.
- Develop building emergency plan and hold needed training.
- Complete operational test procedures on vault ventilation system and portable instrument house.
- Continue facility evaluations.
- Continue developing and training personnel on administrative, operating, maintenance, and calibration procedures.
- Continue to resolve and close out comments from Brookhaven National Laboratory on the final safety analysis report. Continue confirmatory testing and validation of gas generation in the vaults.
- Complete hydrotest of vault 103.

MILESTONE STATUS/PROBLEMS/ISSUES

- HQ has interpreted a letter from the U.S. Nuclear Regulatory Commission as direction to pretreat waste before grouting. This would have a significant impact on the Tri-Party Agreement.
- Reworking the comments and recommendations from the Performance Assessment HQ Peer Review Panel has had a major impact on resources and meeting of milestones. This rework is the major driver for delaying Grout Treatment Facility Tri-Party Agreement milestones (reference change request M-01-92-01A).
- Starting up the Grout Treatment Facility and initiating grout vault 102 filling to meet milestone M-01-01A is highly unlikely. Late mobilization in fiscal year (FY) 1993, facility readiness activities, and lack of appropriate staff already are causing delays (reference change request M-01-92-01A).



Variance Explanation: None required.

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MAJOR MILESTONE: M-02-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Initiate pretreatment of DST waste.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-02-03	Submit tank waste remediation system (TWRS) baseline scope, cost, and schedule.	8/31/93	8/31/93
M-02-05	Incorporate additional interim milestones to support pretreatment of DST waste.	8/31/93	TBD

ACCOMPLISHMENTS

- Continued negotiations with Ecology and U.S. Environmental Protection Agency (EPA) on TWRS rebaselining and revision, including M-02.

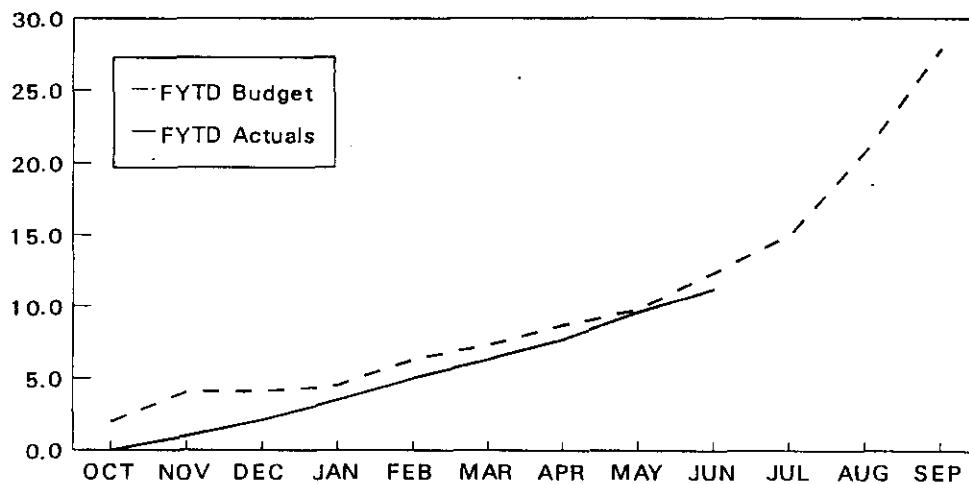
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Issue final drafts of TWRS baseline documents for external review (M-02-03):
 - Functions and requirements documents
 - Integrated technology plan
 - TWRS program plan
 - TWRS program management plan.
- Issue tank waste technical options report (supports M-02-03).
- Defer identification of additional interim milestones for pretreatment (M-02-05), consistent with the schedule (TBD) for establishing new TWRS milestones via Tri-Party Agreement negotiations and public review and comment.
- Begin Phase I of the DST 241-AZ-101 settling test to evaluate temperature response caused by shutting off airlift circulators (M-02-00-T7).

MILESTONE STATUS/PROBLEMS/ISSUES

- Target milestone M-02-00-T07 ("Initiate Settling Tests for Neutralized Current Acid Waste In-Tank Solids Washing") may be satisfied through initiation of Phase I of the DST 241-AZ-101 settling/bump test. Formal documentation is being prepared to obtain agreement on what constitutes completion of this milestone.
- The TWRS rebaselining study was completed and released in March. A 6-month public participation period has begun to allow public review and comment before agreements are reached with the regulators. The process includes public meetings, workshops, and the formation of a task force of representatives from potentially affected groups. The task force will review the study and provide comments to the three parties.
- Milestones M-02-03 and M-02-05 were established before the Evaluation of Hanford Tank Waste Remediation Alternatives Agreement in Principle was reached. The scope of these two milestones is an integral part of the evaluation and negotiation authorized by the agreement. At the milestone review meeting, May 20, a proposal was made to delay these milestones to coincide with the conclusion of negotiations. A draft change request was prepared for milestone M0-02-05.

\$ Millions



FYTD Budget	2.0	4.1	4.1	4.5	6.3	7.3	8.7	9.8	12.4	15.0	20.9	27.9
FYTD Actuals	0.0	1.0	2.1	3.5	5.0	6.3	7.7	9.6	11.2			
Spending Var	2.0	3.1	2.0	1.0	1.3	1.0	1.0	0.2	1.2			

Variance Explanation: None required.

MAJOR MILESTONE: M-03-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: R. W. Brown

MANAGER: R. A. Smith

BASELINE DATE: December 1999

PROJECTED DATE: December 1999

DESCRIPTION: Initiate Hanford Waste Vitrification Plant (HWVP) Operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-03-05	Initiate construction of the Vitrification Building foundation.	3/93	9/93

ACCOMPLISHMENTS

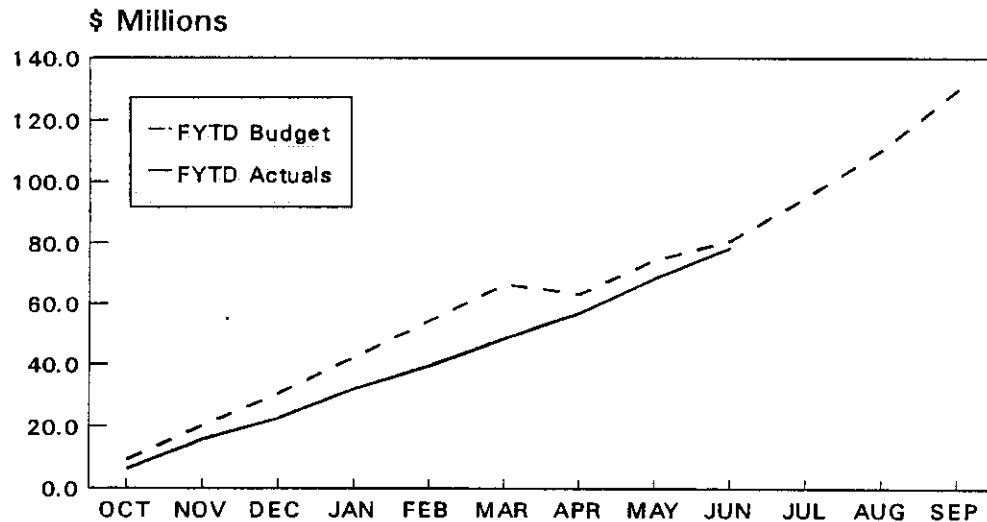
- Initiated construction of the Operations Administration Building/TWRS Office Building.
- Initiated construction of the Canister Storage Building foundation.
- Completed Concrete Batch Plant erection and began concrete production testing.
- Completed installation of perimeter lighting.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Solicit bids, award subcontract, and begin installation of Mechanical Site Utilities.
- Complete Phase II of the HWVP total operating efficiency evaluation, verifying Phase I.
- Continue study to increase the throughput capacity of the HWVP.
- Begin formal safety evaluation activities for the increased plant capacity concept.
- Complete construction of the temporary warehouse.
- Continue construction of the Operations Administration Building/TWRS Office Building and Canister Storage Building.

MILESTONE STATUS/PROBLEMS/ISSUES

- Start of construction of the Vitrification Building foundation, milestone M-03-05, has been suspended for 6 months. The 6-month period will be used for public review of the proposed TWRS rebaselining and negotiating potential changes to the HWVP milestones in the Tri-Party Agreement.
- Ecology has not approved and issued the Clean Air Act Permit.



FYTD Budget	9.3	20.2	30.5	42.2	54.4	66.4	63.2	74.4	80.8	94.3	109.2	128.6
FYTD Actuals	6.2	15.8	22.5	32.0	39.5	48.4	56.9	68.3	78.4			
Spending Var	3.1	4.4	8.0	10.2	14.9	18.0	6.3	6.1	2.4			

Variance Explanation: None required.

MAJOR MILESTONE: M-04-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: September 30, 1993

PROJECTED DATE: September 30, 1993

DESCRIPTION: Provide annual reports of tank waste treatability studies.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-04-00D	Provide annual report of tank waste treatability studies.	09/93	09/93

ACCOMPLISHMENTS

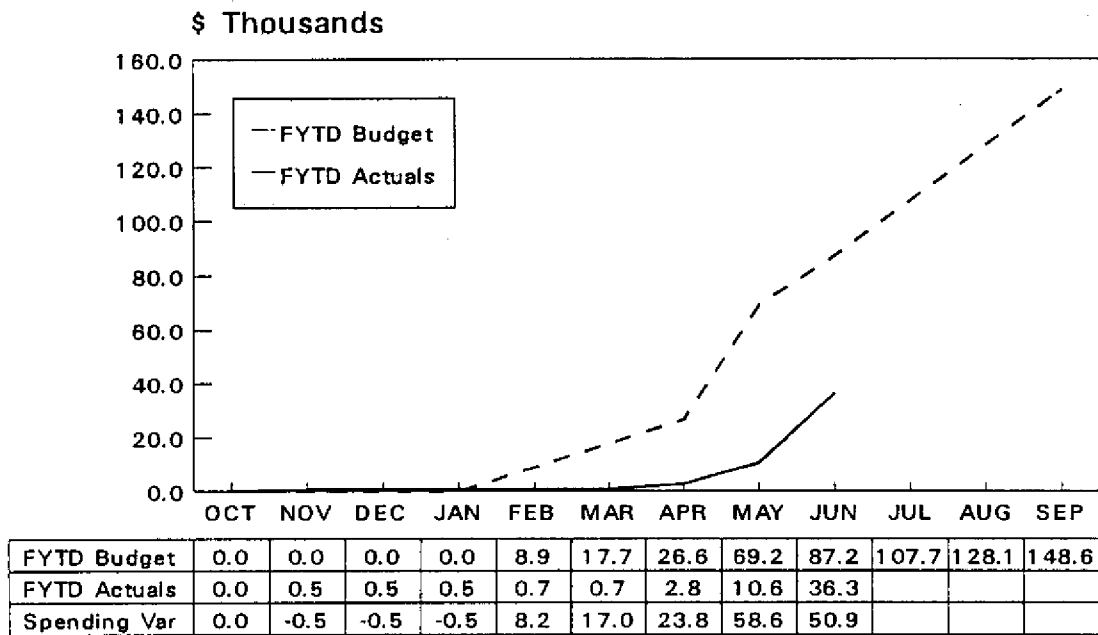
- The coordinator has received 84 percent of the draft input sections for the report.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Prepare and issue annual report.

MILESTONE STATUS/PROBLEMS/ISSUES

- Nothing significant to report.



Variance Explanation: The cost underrun is caused by the use of fewer resources than expected to prepare some draft sections of the report, the need for some organizations to complete their contributions, and contract costs for work performed that have not been costed. This chart is prepared in thousands to provide meaningful data. The Budget Baseline Summary table shows zero for FY to date Budget and FY to date Actual because it is in millions.

MAJOR MILESTONE: M-05-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: R. E. Gerton

MANAGER: R. E. Raymond

BASELINE DATE: September 1995

PROJECTED DATE: TBD

DESCRIPTION: Complete single-shell tank (SST) interim stabilization.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-05-03	Interim stabilize an additional four SSTs.	9/91	TBD
M-05-04	Interim stabilize an additional nine SSTs.	9/92	TBD
M-05-05	Interim stabilize an additional 11 SSTs.	9/93	TBD
M-05-17B	Complete Nuclear Operator training.	12/93	12/93

ACCOMPLISHMENTS

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone.
- Completed a rewrite of the SST 241-C-106 emergency response plan to accommodate comments from Ecology.
- Issued a schedule for completing Operations Supervisor and Shift Manager training and documentation of completion of the first training course. This completes interim milestone M-05-17C.

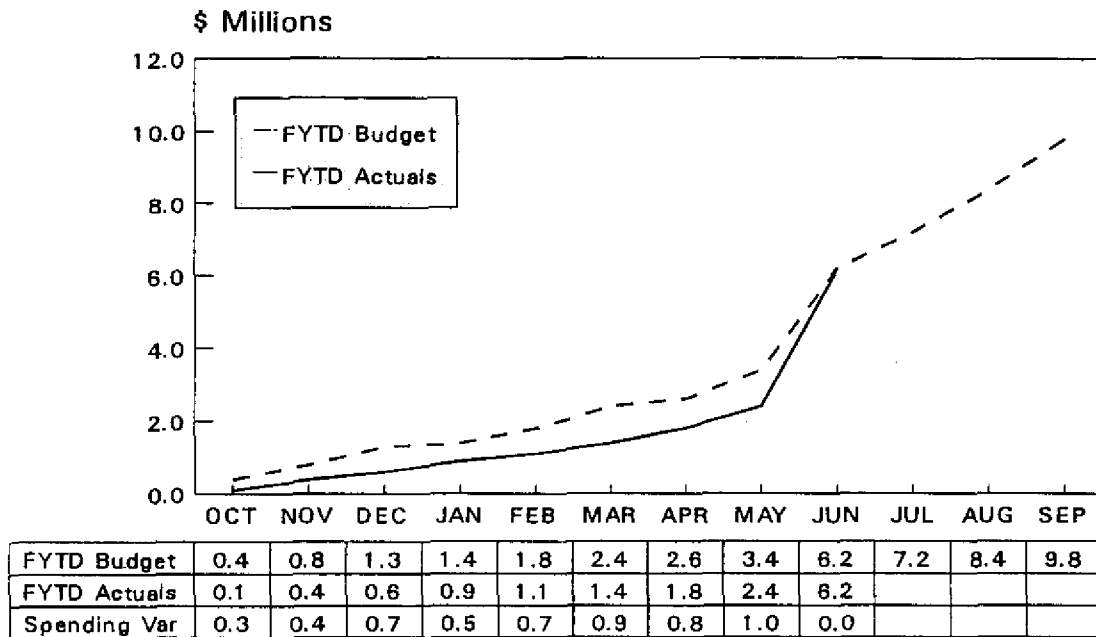
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Begin emergency pumping of SST 241-BX-111 and pumping of SST 241-BX-110.
- Complete safety analysis report addendum to allow alternative methods for transfer of RAD waste within SST farms.
- Complete integrity assessment of waste transfer lines.
- Continue restoration of double-contained receiver tank 244-U.

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MILESTONE STATUS/PROBLEMS/ISSUES

- SST 241-SX-102 was declared an assumed leaker. Steps are under way to find the best method for reducing the drainable liquid to a level that will cease discharging waste to the soil. Studies may show that this tank's liquid level deviation is caused by natural evaporation, and not a leak. Until this is proven, steps will continue as though the tank is leaking.
- SST 241-BX-111 was declared an assumed releaker. Steps are under way to find the best method for reducing the drainable liquid to a level that will cease discharging waste to the soils. This tank was declared an assumed leaker in 1984.
- A draft Change Control Form was submitted to the regulators that would add the start of pumping SST 241-BX-111 in August 1993 as a new interim milestone. Ecology has rejected this approach. HQ is reviewing its options before deciding its next step.
- A "Creation of Danger," as defined in Article 31 of the Tri-Party Agreement, was declared on January 28, 1992. To protect worker safety, a work restriction was placed on all SST farms, and fresh air is required to operate within the boundaries of three farms. On February 28, 1992, all waste transfers in the 200-Area tank farms were halted because of concerns on fissile material inventory. The cessation on waste transfers continues. The impacts to the Tri-Party Agreement will result in a change request.
- A safety question was raised about the hazards of higher temperatures that could result in the SSTs when liquid is removed from them. Analyses and studies continue on this question.
- This milestone is being reevaluated under the New Technical Strategy of the TWRS, and the negotiations may result in changes to this milestone. A public involvement program is in place, and renegotiations of this milestone are in progress.



Variance Explanation: None required.

Change from May budget: There has been an approximate \$3 million increase in the FY 1993 annual budget for M-05. This increase results from funding provided for equipment preparation, documentation, and emergency pumping of SST 241-T-101 and for pumping preparation for SSTs 241-BX-110 and -111.

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SECRET

MAJOR MILESTONE: M-06-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

DESCRIPTION: Develop SST waste retrieval technology and complete scale-model testing.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including possible revision of this milestone. Continuing discussions cover the recommended milestone program baseline.

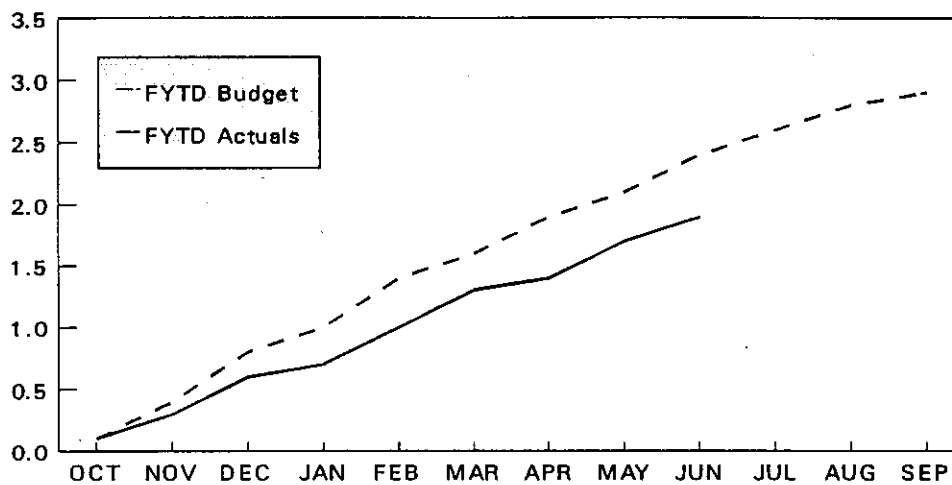
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit, review, and obtain regulator concurrence on the M-06 definition plan by September 1993.
- Experimentally optimize retrieval rates with computer modeling. Define the airlift conveyance system limits.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

\$ Millions



FYTD Budget	0.1	0.4	0.8	1.0	1.4	1.6	1.9	2.1	2.4	2.6	2.8	2.9
FYTD Actuals	0.1	0.3	0.6	0.7	1.0	1.3	1.4	1.7	1.9			
Spending Var	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.4	0.5			

Variance Explanation: The cost underrun is caused by contract procurement commitments that have not been costed and a delay in startup caused by staffing shortages.

MAJOR MILESTONE: M-07-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

DESCRIPTION: Initiate full-scale demonstration of waste retrieval technology.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone. Continuing discussions explained the recommended milestone program baseline, as well as discussions on tank farm closure. Barrier technology and application requirements were also discussed.

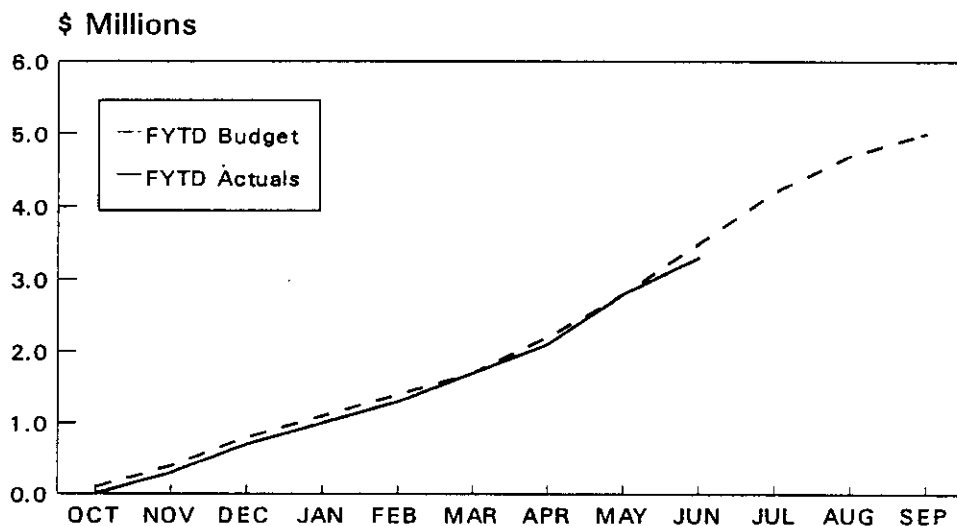
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Develop a detailed plan for M-07-00 achievement, integrated with milestone M-06-00 ("Develop SST Waste Retrieval Technology") and the Underground Storage Tank Integrated Demonstration activities. Propose revisions to the M-07 interim milestones based on the detailed schedules.
- Develop and present to the regulators a position paper on tank waste retrieval program regulatory compliance issues.

MILESTONE STATUS/PROBLEMS/ISSUES

- Preliminary assessments suggest that performing an environmental assessment or environmental impact statement could substantially delay this program.
- The preliminary strategy for SST retrieval includes two reference technologies: sluicing and long-reach manipulator systems. The retrieval demonstration under M-07 will use sluicing technology. Significant development work is required before other retrieval technologies can be used. The long-reach manipulator system (or alternative technology) will be deployed to complete the retrieval demonstration if sluicing cannot achieve the 95 percent waste retrieval criteria for the M-07 demonstration.

- The preliminary studies on subsurface barriers show this technology is in its infancy. The potential that subsurface barriers be required as part of this milestone will practically ensure that the milestone could not be met as scheduled, and the benefit to the environment is questionable. The utilization of surface barriers would provide similar protection to groundwater by preventing precipitation from recharging the vadose zone.
- This milestone is being reevaluated under the New Technical Strategy of the TWRS. The negotiations may result in changes to this milestone. A public involvement program is in place, and renegotiations of this milestone are in progress.



FYTD Budget	0.1	0.4	0.8	1.1	1.4	1.7	2.2	2.8	3.5	4.2	4.7	5.0
FYTD Actuals	0.0	0.3	0.7	1.0	1.3	1.7	2.1	2.8	3.3			
Spending Var	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.2			

Variance Explanation: None required.

MAJOR MILESTONE: M-08-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 2004

PROJECTED DATE: June 2004

DESCRIPTION: Initiate full-scale tank farm closure demonstration project.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

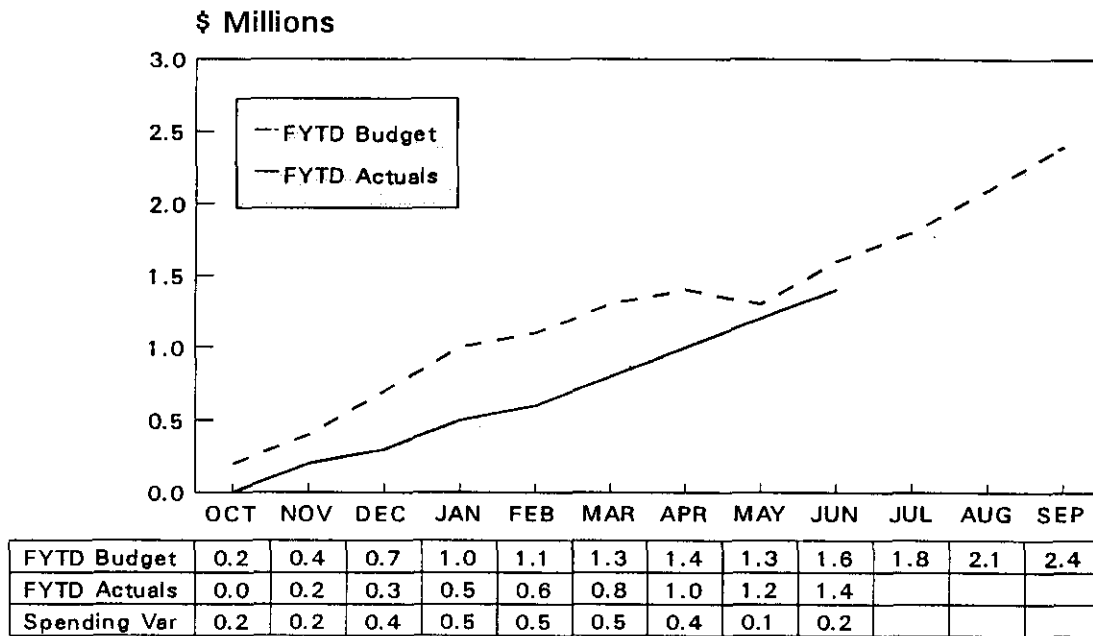
- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone. Continuing discussions explained the recommended milestone program baseline, as well as discussions on tank farm closure. Also discussed barrier technology and application requirements.

PLANNED ACTIONS FOR THE NEXT 6 MONTHS

- Complete a tank farm retrieval and closure program plan.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.
- The preliminary studies on subsurface barriers indicate this technology is in its infancy. The potential that subsurface barriers be required as part of this milestone will practically ensure that the milestone could not be met as scheduled and the benefit to the environment is questionable. The utilization of surface barriers would provide similar protection to groundwater by preventing the recharge of the vadose zone through precipitation.
- This milestone is being reevaluated under the new technical strategy of the TWRS. This milestone may be modified by the TWRS negotiations. A public involvement program is in place, and renegotiations of this milestone are in progress by the three parties.



Variance Explanation: Variance is caused by difficulties in acquiring personnel to perform technology development and program support tasks.

MAJOR MILESTONE: M-09-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: June 2018

PROJECTED DATE: June 2018

DESCRIPTION: Complete closure of all 149 SSTs.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone. Continuing discussions explained the recommended milestone program baseline, as well as discussions on tank farm closure. Also discussed barrier technology and application requirements.
- Management responsibility for this milestone is divided between Waste Management and Environmental Restoration programs, and a meeting was convened this month to discuss and develop an overall milestone management philosophy. Although no final agreement was reached, substantial progress was made. Discussions will continue.

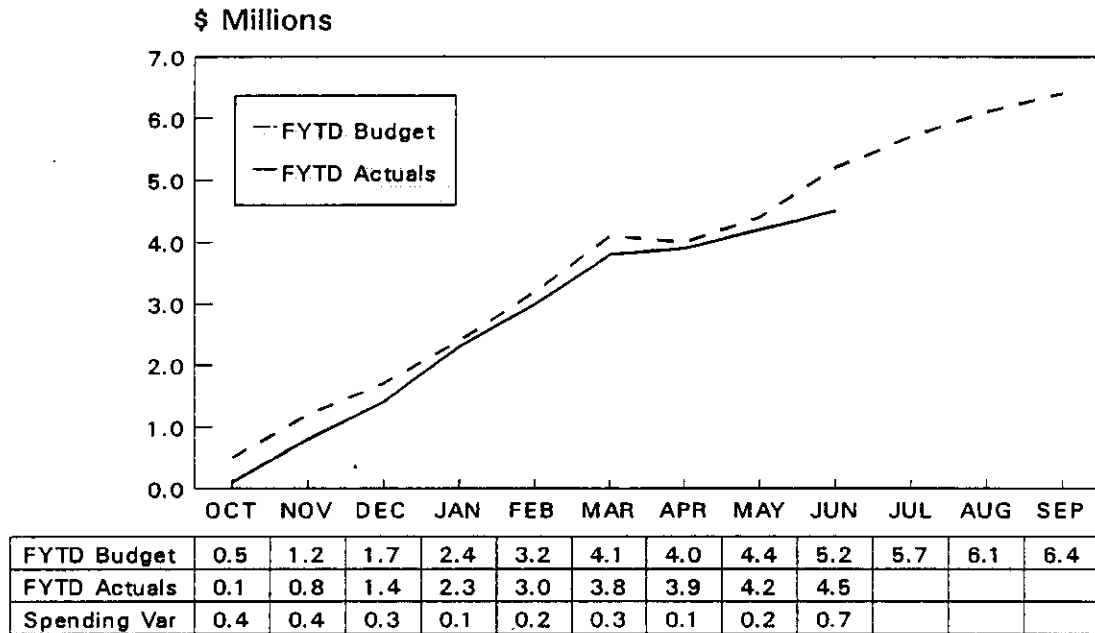
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Continue to redefine SST waste disposal strategy under the TWRS Decision Plan.
- Issue in the *Federal Register* a notice of intent for the TWRS Environmental Impact Statement.
- Begin the next revision to the SST Closure/Corrective Action Work Plan, a precursor document for the SST Closure Plan.

MILESTONES STATUS/PROBLEMS/ISSUES

- This milestone is on schedule; however, it may be in jeopardy if preclosure activities are not accelerated. Several activities require acceleration: Supplemental Environmental Impact Statement and Record of Decision preparation, SST Waste and Field Characterization, Technology Development, and concurrent permitting with facility design.

- This milestone is being reevaluated under the new technical strategy of the TWRS; therefore, this milestone is subject to modification under the TWRS negotiations. A public involvement program is in place, and renegotiations of this milestone are in progress by the three parties.



Variance Explanation: Variance is caused by less progress on the TWRS Systems Engineering studies than planned; in addition, disposal costs for the solid waste generated during the SST 241-T-106 borehole effort have not been realized.

Change from May budget: A Class I change request was processed to provide additional funding to cover the increased borehole drilling costs for SST 241-T-106 Vadose Zone Investigation. Unanticipated changes in geological conditions have increased regulator requirements and necessitated changes to the drilling and sampling strategy.

MAJOR MILESTONE: M-10-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: R. E. Gerton

MANAGER: J. G. Propson

BASELINE DATE: September 1998

PROJECTED DATE: September 1998

DESCRIPTION: Complete analyses of at least two complete core samples from each SST.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-10-07	Obtain 24 core samples from 12 SSTs.	9/93	9/93
M-10-13	Restore rotary model sampling capability at the Hanford Site.	9/93	9/93

ACCOMPLISHMENTS

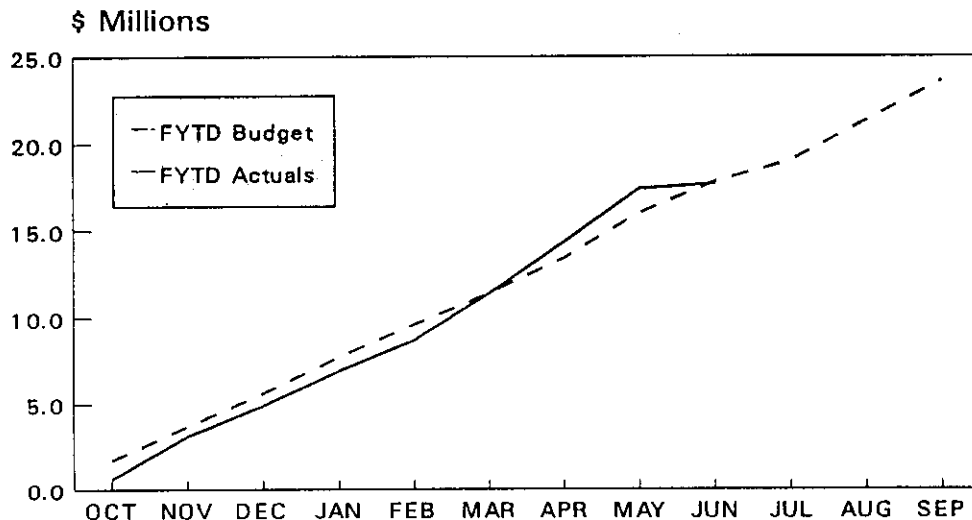
- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone. Substantial agreement has been reached on the recommended changes to a new milestone program baseline. These negotiation sessions also continued discussions with the regulators on a new HQ direction that proposes the SST Characterization Program and related Tri-Party Agreement milestones be reevaluated to reflect retrieval requirements. Characterization data is required to (1) resolve tank safety issues, (2) develop retrieval technologies, and (3) identify pretreatment technologies. Changes to the baseline will be reflected in the Tri-Party Agreement major milestone M-10-00.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Obtain core samples from SSTs 241-C-106, -C-108, -C-111, and -T-101. All of these SSTs are safety issue SSTs.
- Continue rotary mode sampling testing and implementation.
- Issue the TWRS Waste Characterization Plan. This rewrite of the SST Waste Characterization Plan will incorporate all TWRS requirements into a single plan.

MILESTONE STATUS/PROBLEMS/ISSUES

- The major milestone is on schedule; however, interim milestones M-10-07 through M-10-12 are under evaluation. Several actions can be taken to ensure meeting these milestones, both internally and with the regulators. These are being discussed with the regulators.
- The core sampling program is in a technical stand-down because of a possible problem with sample recovery. Less material is being recovered than is expected. Core samples were taken from SST 241-T-105, and the problem appears to have persisted. Until this is resolved, no further core samples are being taken.
- This milestone is being reevaluated under the new technical strategy of the TWRS; therefore, this milestone is subject to modification under the TWRS negotiations. A public involvement program is in place, and renegotiations of this milestone are in progress by the three parties.



FYTD Budget	1.7	3.7	5.6	7.7	9.6	11.4	13.4	16.0	17.8	19.0	21.3	23.6
FYTD Actuals	0.6	3.1	4.9	6.9	8.7	11.4	14.3	17.4	17.7			
Spending Var	1.1	0.6	0.7	0.8	0.9	0.0	-0.9	-1.4	0.1			

Variance Explanation: None required.

MAJOR MILESTONE: M-11-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

DESCRIPTION: Complete construction and initiate operations of expanded laboratory hot cells for high-level radioactive mixed waste.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Construction:
 - Completed welding and most of the grinding in the sample preparation compartment. Completed welding on tunnel pieces, and installed tunnel shielding.
 - Started interior insulation and sheet rock.
- Startup Activities:
 - Established weekly startup meetings for tracking the startup schedule and action items.
 - The readiness review board has been appointed.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

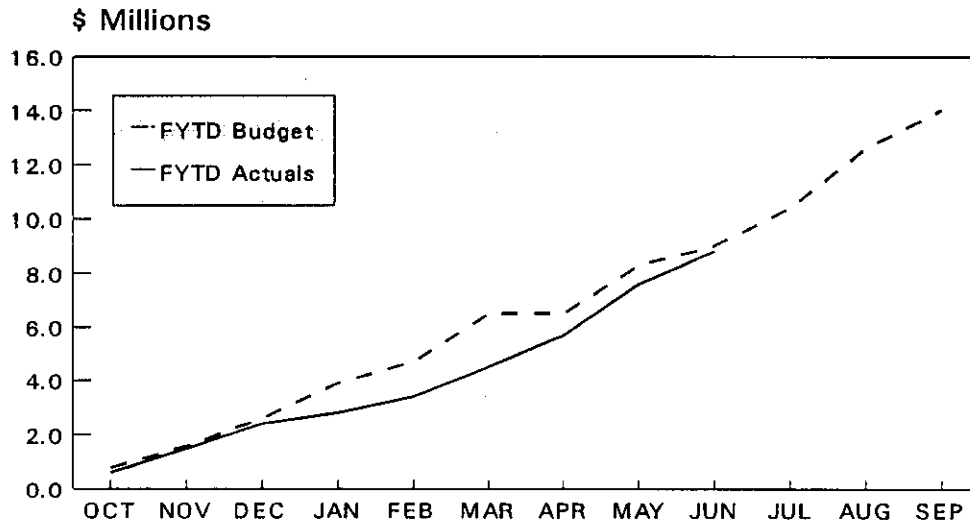
- Construction:
 - Complete welding and grinding inside the load-in/load-out compartment. Attach all transfer drawers and compartments to the hot cell.
 - Complete installation of electrical, ventilation, and piped services in and around the hot cell.
 - Receive shielding windows and manipulators.

- **Startup Activities:**

- Begin operational readiness review process.
- Identify equipment required for startup and prepare purchase orders.

MILESTONE STATUS/PROBLEMS/ISSUES

None.



FYTD Budget	0.8	1.6	2.6	3.9	4.7	6.5	6.5	8.3	9.0	10.4	12.6	14.0
FYTD Actuals	0.6	1.5	2.4	2.8	3.4	4.5	5.7	7.6	8.8			
Spending Var	0.2	0.1	0.2	1.1	1.3	2.0	0.8	0.7	0.2			

Variance Explanation: None required.

MAJOR MILESTONE: M-13-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASLINE DATE: Annual beginning
calendar year (CY) 1993

PROJECTED DATE: Annual beginning
CY 1993

DESCRIPTION: Submit six remedial investigation/feasibility study (RI/FS) or Resource Conservation and Recovery Act (RCRA) facility investigation/corrective measures study (RFI/CMS) work plans each year.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected*
M-13-04	Submit operable unit (OU) 200-ZP-1 work plan.	8/93	8/93
M-13-05	Submit OU 100 DR-2 work plan.	10/93	10/93
M-13-06	Submit OU 200-BP-5 work plan.	12/93	12/93

ACCOMPLISHMENT

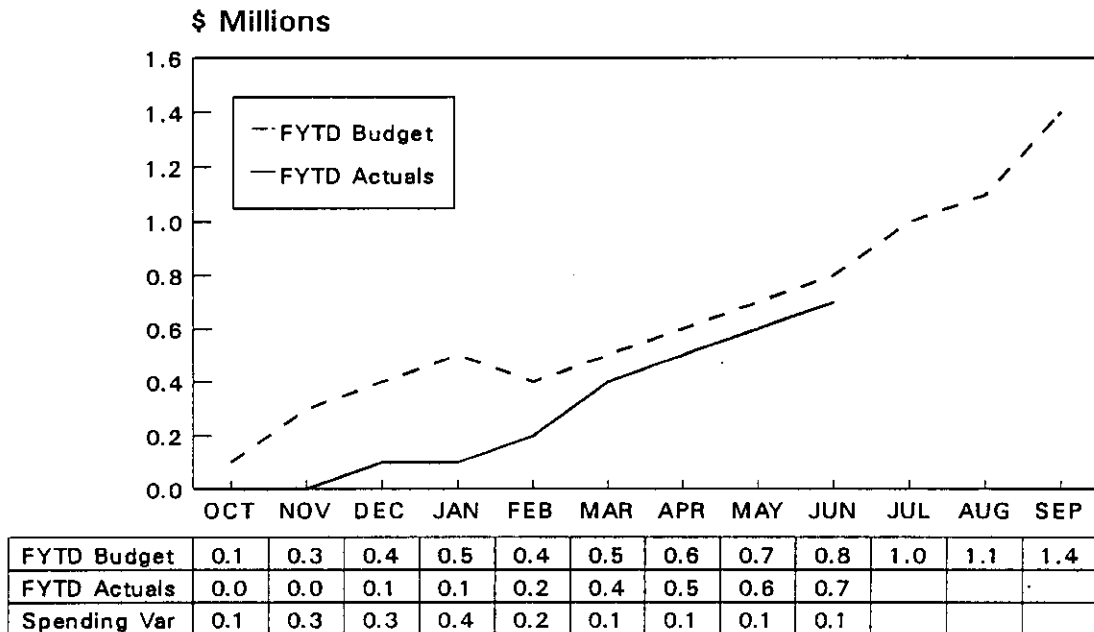
- Completed interim milestone M-13-01 (submit OU 100-BC-2 Work Plan).
- Completed interim milestone M-13-03 (submit OU 100-HR-2 Work Plan).

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit the OU 200-ZP-1 work plan to the regulators for review.
- Submit the OU 100-DR-2 work plan to the regulators for review.
- Continue to resolve comments on the OU 200-UP-2 work plan with the regulators.
- Continue to resolve scheduling conflicts between N Reactor shutdown plan and the OU 100-NR-1 and 100-NR-2 work plans.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.



Variance Explanation: The OU 100-HR-2 work plan was prepared in-house by Westinghouse Hanford Company personnel as opposed to an offsite subcontractor. Additionally, the work plan references existing approved work plans, which required less document preparation.

Change from May budget: The budget was reduced by the cost savings realized through the use of in-house Westinghouse Hanford Company personnel rather than offsite subcontractors for work plan preparation.

MAJOR MILESTONE: M-14-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: October 1995

PROJECTED DATE: October 1995

DESCRIPTION: Provide low-level mixed waste laboratory services.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-14-02	Complete construction of a 27-module Waste Sampling and Characterization Facility (WSCF).	10/93	10/93
M-14-03	Initiate WSCF operations.	4/94	4/94

ACCOMPLISHMENTS

- Construction (core facility):
 - Readied the interior of the core facility (Administrative and Nuclear Spectroscopy Laboratory areas) for testing and balancing of the heating, ventilating, and air conditioning system.
 - Received all modules from Texas. Placed all but two of the laboratory room modules on their foundations.
- Construction (auxiliary structures):
 - Continued installation of conduit and wiring in the Environmental Data Remedial Tracking Facility Building 6270.
 - Completed mechanical and electrical rough-in work for the Mobile Lab Storage Facility Building 6269.
 - Completed the metal building for the Environmental Sample Archive Building 6267.
 - Completed the Utility Building (6265) with the exception of electrical.
 - Completed the Solid Waste Storage Building 6265A with the exception of electrical.

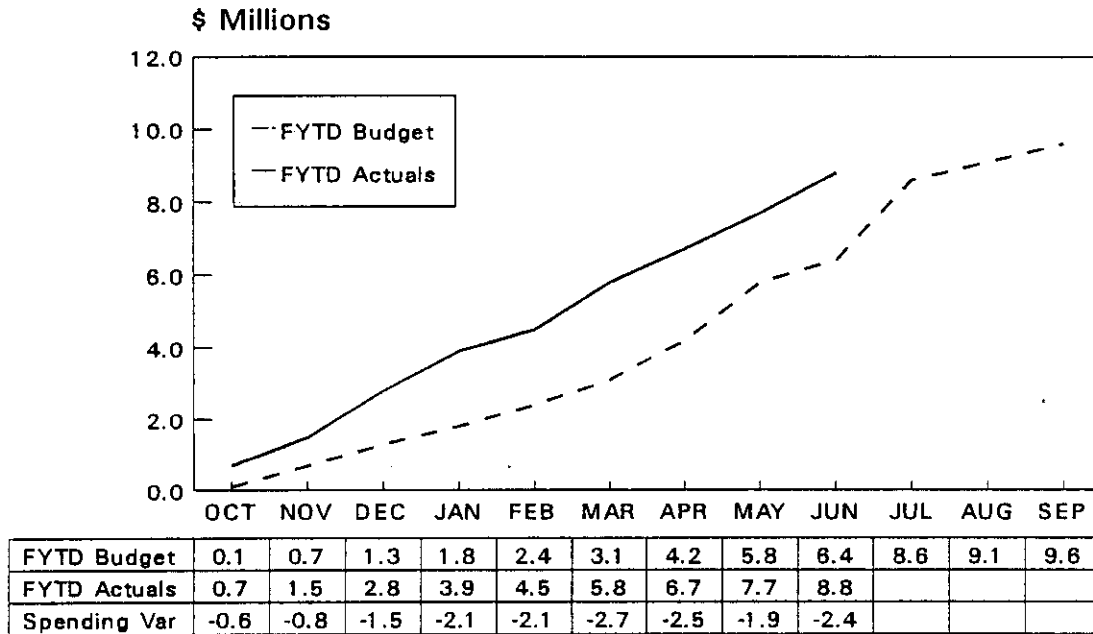
- **Startup Activities:**
 - Issued the plant readiness plan and began detailed organization of the operational readiness review; drafted radiological protection plan; completed functional review of the Final Safety Analysis Report.
 - Appointed the WSCF Complex operations manager and began ramp-up of operating staff.
- **Commercial Laboratory:**
 - Submitted award recommendation packages ahead of schedule to RL for approval on June 25, 1993. Initial RL response was favorable.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- **Construction:**
 - Complete WSCF construction. Complete receipt, assembly, and testing of Analytical Laboratory.
- **Startup Activities:**
 - Receive and install analytical equipment and conduct operation testing.
 - Obtain and train new staff and start operational readiness review.
- **Commercial Laboratory:**
 - Receive RL approval for recommended awards and execute associated purchase order awards.

MILESTONE STATUS/PROBLEMS/ISSUES

- The WSCF module vendor went into default. This caused a delay in delivery of the modules. Immediate actions were taken to minimize the delay of the remaining modules to the construction site. All module shipments have now been received on site, but require rework and testing before any cost or schedule impact can be fully determined. We are now assessing impacts to the total estimated cost or schedule. Such impacts, if any, will be communicated to EPA and Ecology when defined.



Variance Explanation: The cost overrun is caused by the exclusion of previous years' capital budgets. Spending rates continue as planned to support the April 1994 waste sampling characterization facility startup. With previous years' capital budget included, trends indicate this project will be completed at the approved project budget level. This may be impacted as a result of the recent default of the U.S. Modular contract.

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MAJOR MILESTONE: M-15-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 2005

PROJECTED DATE: September 2005

DESCRIPTION: Complete the RI/FS or RCRA RFI/CMS process for all OUs.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-15-02E	Submit draft barrier constructability report to EPA and Ecology	1/31/94	1/31/94
M-15-03B	Submit RI Phase II report for 300-FF-1 to EPA and Ecology.	12/31/93	12/31/93
M-15-04A	Submit draft 300-FF-5 F/S Phase I and II report to EPA and Ecology.	7/15/93	7/15/93
M-15-05A	Submit OU 100-HR-1 Limited Field Investigation (LFI) Report to Ecology and EPA.	8/9/93	8/9/93
M-15-05B	Complete OU 100-HR-1 Treatability Study Activities.	11/30/93	11/30/93
M-15-06A	Submit OU 100-HR-3 LFI Report to Ecology and EPA.	10/31/93	10/31/93
M-15-06B	Complete OU 100-HR-3 Treatability Study Activities.	11/30/93	11/30/93
M-15-07A	Submit OU 100-DR-1 LFI Report to Ecology and EPA.	08/09/93	08/09/93
M-15-08B	Submit OU 100-BC-1 LFI Report to Ecology and EPA.	7/31/93	7/31/93
M-15-08C	Submit OU 100-BC-1 Treatability Study Report to Ecology and EPA.	1/31/94	1/31/94
M-15-09B	Submit OU 100-BC-5 LFI Report to Ecology and EPA.	8/31/93	8/31/93
M-15-10A	Submit validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation," for OU 100-KR-1 to Ecology and EPA.	10/31/93	10/31/93

Milestone	Description	Baseline	Projected
M-15-11B	Submit OU 100-KR-4 LFI Report to Ecology and EPA.	1/12/94	1/12/94
M-15-13A	Submit validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation," for OU 100-FR-1 to Ecology and EPA.	11/31/93	11/31/93
M-15-13F	Submit OU 100-FR-3 LFI Report to Ecology and EPA.	4/14/94	4/14/94

ACCOMPLISHMENTS

- Submitted the first round of groundwater validation reports for OU 100-FR-3 to the regulators. This completes interim milestone M-15-13E.
- Submitted the 200-BP-1 FS I, II, III Report to the regulators. This completes interim milestone M-15-02D.
- Held the public meeting on the 1100 Area Proposed Plan at the Richland Library.
- Completed validated data standby for the third round of groundwater sampling for OU 100-BC-5.
- Completed the OU 100-HR-1 LFI report.
- Completed Revision 2 of the Hanford Site Baseline Risk Assessment Methodology.
- Submitted EII 4.3 Draft to regulators for concurrence (controls disposition and/or disposal of past practice investigation derived wastes).
- Finalized the 200 North Aggregate Area Management Study report and submitted it to RL for transmittal to the regulators. This completes the preparation and finalization of the 10 Aggregate Area Management Study reports.
- Completed the definitive design of the Hanford Prototype Barrier for OU 200-BP-1.
- Transmitted the Treatability Test Plan for the 216-B-57 prototype barrier to EPA and Ecology.
- Submitted to RL a change request (C-93-05) making 200-BP-5 a groundwater-only OU containing the groundwater in the northern portion of the 200 East Area.

- Submitted descriptions of work for aquifer testing at OU 200-UP-1 and test pit sampling at OU 200-UP-2 for review and comment.
- Successfully completed the week-long in-house cold test for the soil washing for OU 300-FF-1.
- Transported EPA soil washing equipment to the North Processing Pond using contaminated soils to complete the in-house hot test.
- Completed RL comment disposition for incorporation into FS Phase I/II, and RI Phase I for OU 300-FF-5, which is due to the regulators on July 15, 1993.
- Submitted Round 4 groundwater data validation reports for OU 300-FF-5 to the regulators.
- Began cultural resource review on OU 1100-IU-1.

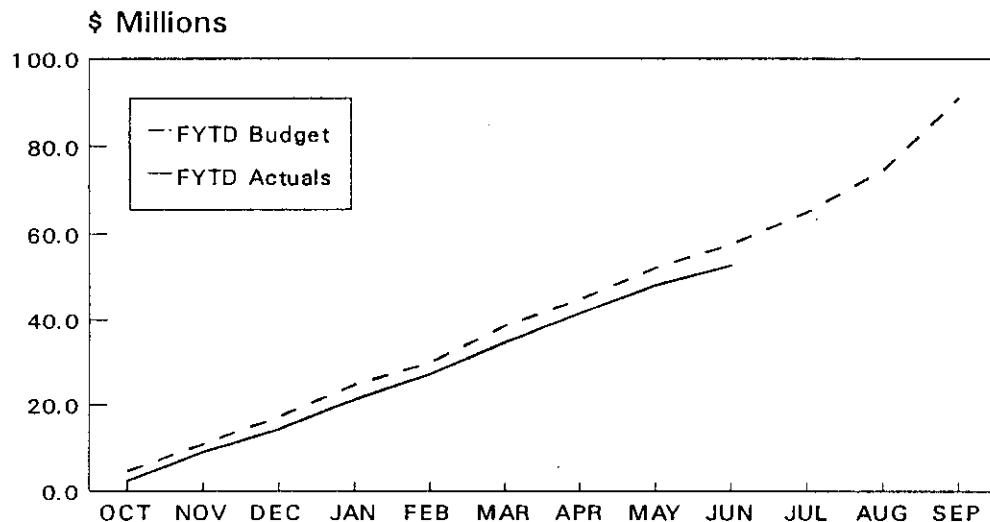
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Prepare responsiveness summary to public review comments on 1100 Area Proposed Plan at the end of public comment period (July 9).
- Submit the LFI report for OU 100-DR-1 to RL and regulators on August 9, 1993.
- Perform the OU 100-BC-5 fifth round of groundwater sampling in September 1993.
- Submit 100-BC-1 LFI report to the regulators on July 30, 1993, to satisfy milestone M-15-08B.
- Perform LFI in July at (116-C-2A Pluto Crib) for OU 100-BC-2.
- Submit the OU 100-HR-3 LFI report to the regulators on October 31, 1993.
- Complete OU 100-HR-3 fifth round of groundwater sampling in August 1993.
- Receive approval of Hanford Site Baseline Risk Assessment Methodology Revision 2 by EPA that will then be included in Appendix F of the Tri-Party Agreement to satisfy milestone M-29-02.
- Complete OU 200-BP-1 eighth round of groundwater sampling by August 1993.
- Complete public review of the Treatability Test Plan in July for OU 200-BP-1.
- Finalize RI Phase I Report for OU 200-BP-1 in July 1993.
- Begin construction of the Hanford Prototype Barrier in September 1993.

- Complete regulator comment disposition on the OU 200-UP-2 work plan schedule and approve the work plan to begin field activities.
- Begin preparation of the work plan for OU 200-BP-5.
- Begin preparation of the work plan for OU 200-BP-11.
- Submit the OU 300-FF-5 Draft FS Phase I and II report to EPA and Ecology in July 1993. This will complete interim milestone M-15-04A.
- Submit the OU 300-FF-5 RI Phase I report to the regulators completing (M-15-04-T1) scheduled for July 1993.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.
- Issue: The three parties have resolved the open regulatory open issues surrounding the OU 100-HR-1 Excavation Treatability Test and have signed National Priorities List agreement forms. The focus sheet for this treatability test was submitted for public review on schedule on June 7, 1993.



FYTD Budget	4.6	11.0	17.2	24.7	29.9	38.5	44.8	52.2	57.6	65.1	74.7	91.0
FYTD Actuals	2.3	9.1	14.3	21.2	27.2	34.7	41.5	48.1	52.8			
Spending Var	2.3	1.9	2.9	3.5	2.7	3.8	3.3	4.1	4.8			

Variance Explanation: None required.

MAJOR MILESTONE: M-16-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: R. D. Freeberg**MANAGER:** T. M. Wintczak**BASELINE DATE:** September 2018**PROJECTED DATE:** September 2018**DESCRIPTION:** Complete the remedial actions for all OUs.**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

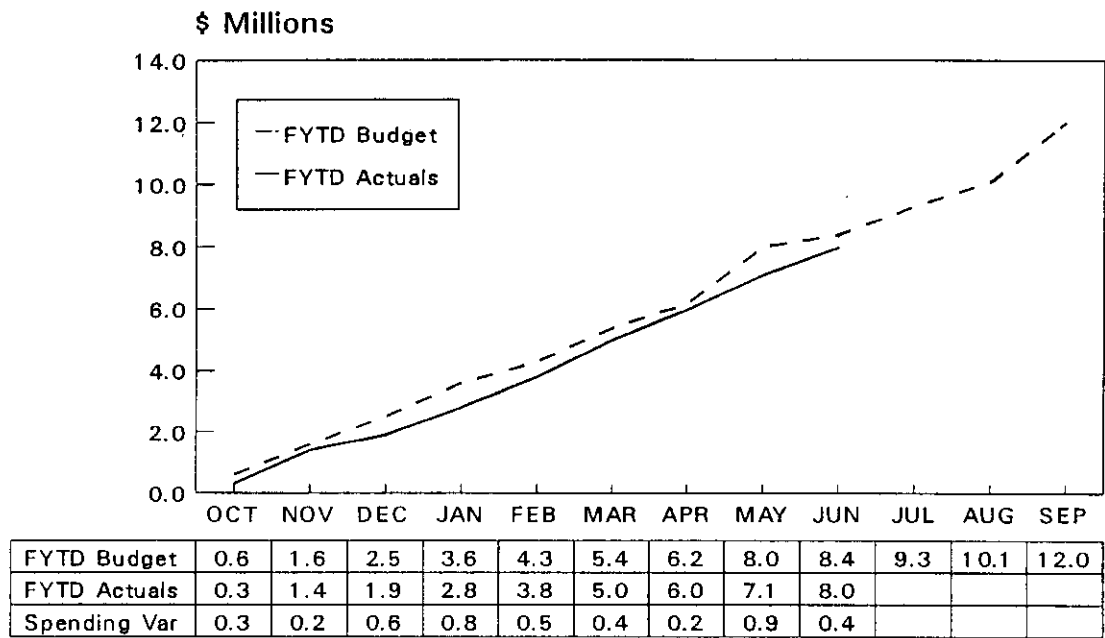
- Transmitted Draft A, White Bluffs Pickling Acid Crib Expedited Response Action Proposal to RL and HQ for OU 100-IU-5.
- Submitted a draft of the North Slope Expedited Response Action Proposal to RL to be transmitted to the regulators for concurrent review.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete remediation of the Riverland Rail site by September 1993.
- Complete disposal of the four remaining drums from Sodium Dichromate that are considered Hazardous Waste.
- Reseed and revegetate at the Sodium Dichromate expedited response action site in the fall.
- Complete N Springs Expedited Response Action Proposal (August 1993).
- Complete Burial Ground 618-11 Expedited Response Action Proposal (August 1993).

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.



Variance Explanation: None required.

MAJOR MILESTONE: M-17-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: D. E. Kelley

M-17-00A:**BASELINE DATE:** June 1995**PROJECTED DATE:** June 1995

DESCRIPTION: Complete liquid effluent treatment facilities and upgrades for Phase I effluents.

M-17-00B:**BASELINE DATE:** October 1997**PROJECTED DATE:** October 1997

DESCRIPTION: Implement best available technology/all known, available, and reasonable methods of prevention, control, and treatment for all Phase II liquid effluents at the Hanford Site.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-17-16D	Implement closed loop cooling for Buildings 291-Z, 234-5Z, and 236-Z, as provided by "291-Z Closed Loop Cooling" (Project C-040) and "Plutonium Finishing Plant Liquid Low-Level Waste System Modification" (Project B-680H). Reduce the discharge to Crib 216-Z-20 to less than or equal to 75 gallons per minute, averaged over the calendar month.	1/94	1/94

ACCOMPLISHMENTS

- Began construction of the 300 Area Treated Effluent Disposal Facility (Project L-045H). Humphery Construction mobilized their forces to begin construction. Held the official groundbreaking for this facility on June 24, 1993.
- Held the official groundbreaking for the 200 Area Treated Effluent Disposal Facility (Project W-049H) on June 17, 1993.
- Submitted the groundwater impact assessment plan to the EPA and Ecology for Crib 216-U-17.

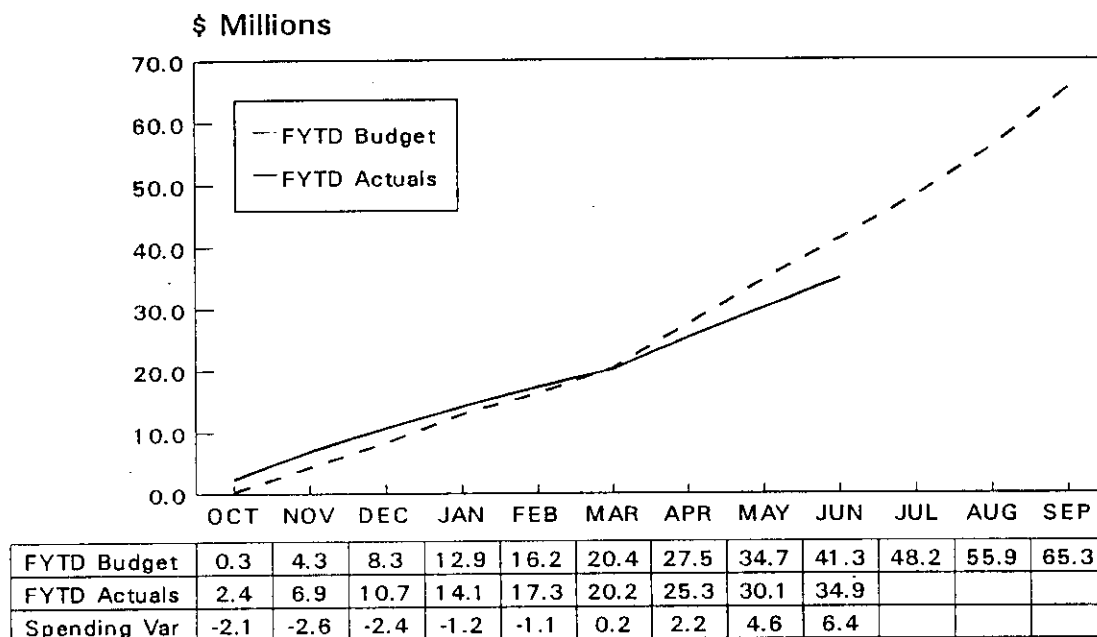
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Obtain approval of the change request (M-17-93-03) that addresses the interim operating restrictions for the 300 Area Process Sewer discharge to the 300 Area Process Trenches.
- Obtain approval of the Class III Change Request that addresses changes to specific liquid effluent analytical procedures.
- Submit groundwater assessment plans to EPA and Ecology for Liquid Wastewater Disposal Facility 1325-N, Crib 216-W-LWC, Powerhouse Pond 284-W, and Pond 2101-M by September 1993 (milestone M-17-13).
- Submit the groundwater assessment plan to EPA and Ecology for the 100-D Ponds by July 1993 (milestone M-17-13).
- Submit the State Waste Discharge permit application to Ecology for the 200 Area Effluent Treatment Facility (Project C-018H) disposal site.
- Submit the 80 percent design report to EPA and Ecology for the 200 Area Effluent Treatment Facility (Project C-018H) disposal site and treatment facility.
- Submit the addendum to the WAC 173-240, *Engineering Report to Ecology for the 200 Area Effluent Treatment Facility* (Project C-018H). The addendum will address pilot plant test results.
- Submit the addendum to the WAC 173-240, *Engineering Report to Ecology for the 200 Area Treated Effluent Disposal Site* (Project C-018H) disposal site characterization work plan. This report will transmit the results of the site characterization activities for the 200 Area Treated Effluent Disposal Site (Project C-018H).
- Obtain Key Decision 1, approval to proceed with advanced conceptual design, from HQ for Project W-252 ("200 Area Phase II Stream Treated Effluent Disposal Facility").
- Obtain approval from HQ for rebaselining of the Hanford Environmental Compliance Line Item to include additional scope to implement Best Available Treatment Technology for UO₃ Plant wastewater and process condensate, T Plant wastewater and laboratory wastewater, 284 West Powerhouse wastewater, and the 2101-M Laboratory wastewater.

MILESTONE STATUS/PROBLEMS/ISSUES

- The milestone is on schedule.
- Compliance with all effluent flow restrictions contained in Tri-Party Agreement milestone M-17 have been maintained.
- Approval from HQ has been delayed for rebaselining of the Hanford Environmental Compliance Line Item to include additional scope to implement Best Available Treatment Technology for UO₃ Plant wastewater

and process condensate, T Plant wastewater and laboratory wastewater, 284 West Powerhouse wastewater, and the 2101-M Laboratory wastewater.



Variance Explanation: Cost underruns are the result of (1) treatability testing at C-018 deferred to FY 1994 as a result of unavailability of feed from LERF; (2) changes in elevations and foundations caused problems with design and fabrication of rebar for C-018 construction project resulting in return of rebar to manufacturer; (3) field engineering started behind schedule for C-018 construction; in addition, field engineering, travel and contract management costs less than anticipated; (4) procedures and training behind schedule in L-045, steps are being taken to recover in FY 1993. Overall schedule impacts, due to delay in expenditure of funds, are not anticipated.

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MAJOR MILESTONE: M-18-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: March 1997

PROJECTED DATE: March 1997

DESCRIPTION: Complete Waste Receiving and Processing (WRAP) Facility, Module 1, construction and initiate operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Continued discussions about the RCRA permit application at the monthly Tri-Party Agreement unit managers' meeting.
- Submitted the Preliminary Safety Analysis Report for the WRAP Facility, Module 1, to RL and HQ for review.
- Held meetings with the Washington Department of Health to discuss issues related to the recent permit applications submitted to the agency for radionuclide releases from the WRAP Facility, Module 1.
- Prepared and issued for bids the first construction bid package for the WRAP Facility, Module 1, facility site preparatory work and process equipment.

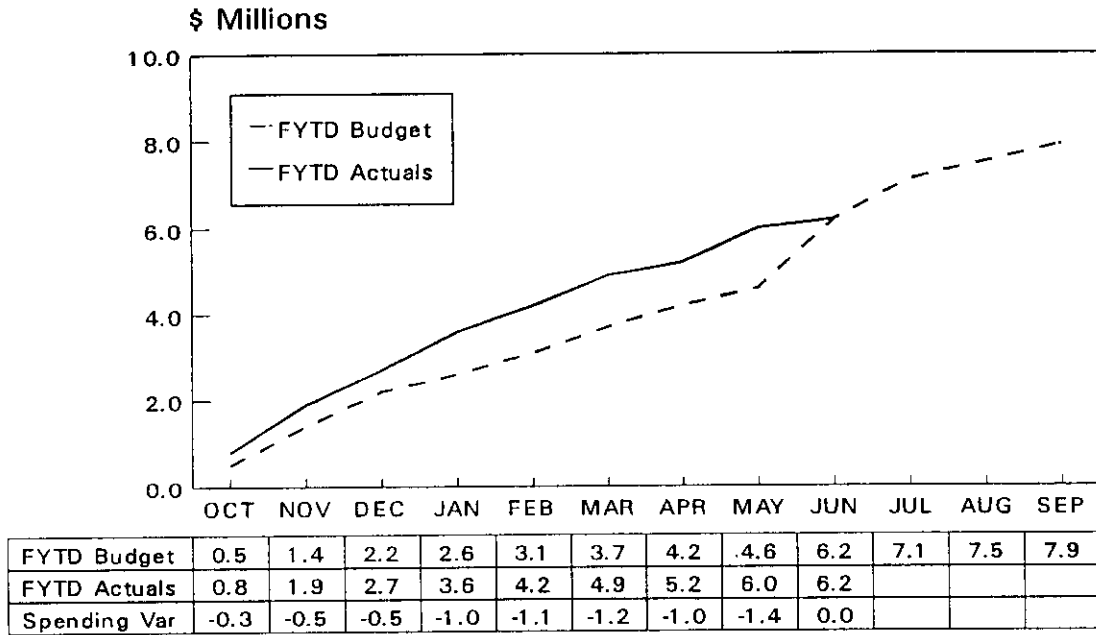
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Begin construction of the WRAP Facility, Module 1.
- Complete glovebox testing.
- Complete the preliminary safety analysis report for the WRAP Facility, Module 1.
- Prepare construction bid packages for WRAP Facility, Module 1. These bid packages will cover major components of the WRAP Facility (e.g., electrical system, heating and ventilation system, fire protection system). Private firms will bid on these packages.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

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Variance Explanation: None required.

Change from May budget: In January of this FY, Solid Waste Projects submitted a class I change request to increase the current year baseline funds as a result of an increase in Title II Design requirements. HQ approved this change request (W-026-064) at the end of May.

MAJOR MILESTONE: M-19-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: September 1999

PROJECTED DATE: September 1999

DESCRIPTION: Complete WRAP Facility, Module 2, construction and initiate operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Began the waste formulation for the waste immobilization demonstration testing.
- Updated the process flow diagrams for grout and polymer immobilization to support the start of Title I design.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Continue preparation of the advanced conceptual design for the WRAP Facility, Module 2A.
- Obtain approval of change request M-19-91-01 from Ecology and EPA.
- Continue with waste form verification and in-drum mixing testing.
- Begin activities for the development of the WRAP Facility, Module 2A, preliminary safety analysis report.
- Obtain Key Decision 1 for the WRAP Facility, Module 2A, from HQ. This decision is required to proceed into definitive design of the project.

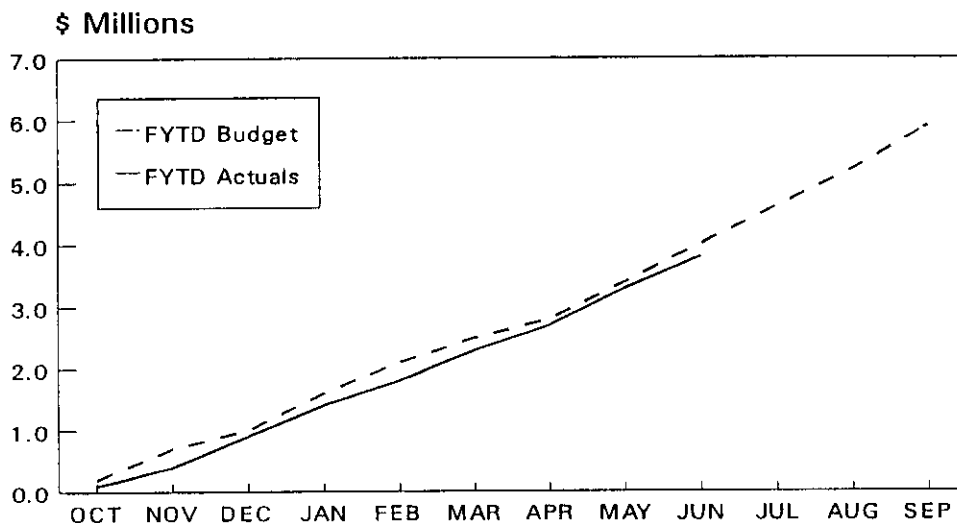
MILESTONE STATUS/PROBLEMS/ISSUES

- Technical issues associated with the Waste Isolation Pilot Plant waste acceptance criteria continue to impact the design of the WRAP Facility, Module 2. A strategy for the WRAP Facility, Module 2B, is being evaluated in light of the Waste Isolation Pilot Plant waste acceptance criteria issues. Work on the portion of the WRAP Facility, Module 2 (i.e., the WRAP Facility, Module 2B) that will receive and process remote handled transuranic waste contaminated hazardous waste (i.e., mixed remote handled transuranic waste) is behind schedule. The portion

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of the WRAP Facility, Module 2, that is not affected by the Waste Isolation Pilot Plant waste acceptance criteria (i.e., the WRAP Facility, Module 2A) remains on schedule. The submodularization of the WRAP Facility, Module 2, is reflected in Tri-Party Agreement change request M-19-91-01. Ecology and EPA continue to review this change request.

- WRAP Facility, Module 2A, is on schedule for September 1999, the Tri-Party Agreement milestone M-19-00 due date.



FYTD Budget	0.2	0.7	1.0	1.6	2.1	2.5	2.8	3.4	4.0	4.6	5.2	5.9
FYTD Actuals	0.1	0.4	0.9	1.4	1.8	2.3	2.7	3.3	3.8			
Spending Var	0.1	0.3	0.1	0.2	0.3	0.2	0.1	0.1	0.2			

Variance Explanation: None required.

MAJOR MILESTONE: M-20-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: J. D. Bauer

MANAGER: S. M. Price

BASELINE DATE: May 1996

PROJECTED DATE: May 1996

DESCRIPTION: Submit Part B permit applications or closure plans for all RCRA treatment, storage, and disposal units.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-20-30	Submit 303-M Oxide Facility Part B.	10/92	Dispute ^a
M-20-42	Submit Thermal Treatment Part B to Ecology and EPA (T-X-3).	12/93	12/94 ^a
M-20-50	Submit 200 Area Effluent Treatment Facility ^b Part B.	8/93	8/93
M-20-31	Submit 1301-N/1325-N Closure Plan/Post-Closure Plan (D-1-2)	5/94	5/94

^aSee "Milestone Status/Problems/Issues."

^bThe unit name has been changed from the 242-A Evaporator/Plutonium-Uranium Extraction (PUREX) Plant Process Condensate Treatment Facility to the 200 Area Effluent Treatment Facility.

ACCOMPLISHMENTS

- Submitted Revision 1 of the Hanford Facility Dangerous Waste Permit Application, General Information, to Ecology and the EPA.
- Submitted a revised Hanford Facility Dangerous Waste Part A Permit Application Form 3 for the Liquid Effluent Retention Facility to Ecology.
- Submitted Notice of Deficiency Response Tables for the WRAP Facility and Liquid Effluent Retention Facility portions of the Hanford Facility Dangerous Waste Permit Application.
- Submitted Notice of Deficiency Response Tables for the Hanford Patrol Academy Demolition Site, 218-E-8 Borrow Pit Demolition Site, and 200 West Ash Pit Demolition Site Closure Plans.
- Submitted Revision 2 of the 2101-M Closure Plan and Revision 1 of the 105-DR Large Sodium Fire Facility Closure Plan.

- Submitted a Tri-Party Agreement change package (M-20-92-7), delaying submittal of the Thermal Treatment Test Facilities Part B permit application from December 31, 1993, to December 31, 1994, to EPA and Ecology.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit a Notice of Intent to expand treatment and storage capacities of the DST system.
- Respond to Notices of Deficiency for the following Hanford Facility Dangerous Waste Permit Application portions: DST System (M-20-16, submitted June 1991); 305-B Storage Unit, Revision 1 (M-20-08, submitted November 1990); 616 Nonradioactive Dangerous Waste Storage Facility, Revision 2 (M-20-02, submitted October 1991); Grout Treatment Facility, Revision 2 (no Tri-Party Agreement milestone number, submitted July 1992); Radioactive Mixed Waste Storage Facility (M-20-05, submitted October 1991); and the 222-S Laboratory Complex (M-20-22, submitted December 1991).
- Respond to Notices of Deficiency for the Hexone Storage and Treatment Closure Plan (M-20-27, submitted November 25, 1992) and the 100-D Ponds Closure Plan (M-20-40, submitted February 26, 1993).
- Revise 304 Concretion Facility Closure Plan, 303-K Radioactive Mixed Waste Storage Facility Closure Plan, and 216-B-3 Pond System Closure/Postclosure Plan to reflect agreements reached with Ecology on Notice of Deficiency comments.
- Submit revised Hanford Facility Dangerous Waste Part A Permit Application Form 3s for the 325/3100 Hazardous Waste Treatment Unit, 207-A South Retention Basin, 200 Area Effluent Treatment Facility, and the T Plant Complex.
- Submit the 200 Area Effluent Treatment Facility Part B permit application to Ecology and the EPA in compliance with milestone M-20-50.
- Submit a change request to Tri-Party Agreement milestone M-20-24 to require submittal of a closure plan for the PUREX Plant in July 1995.

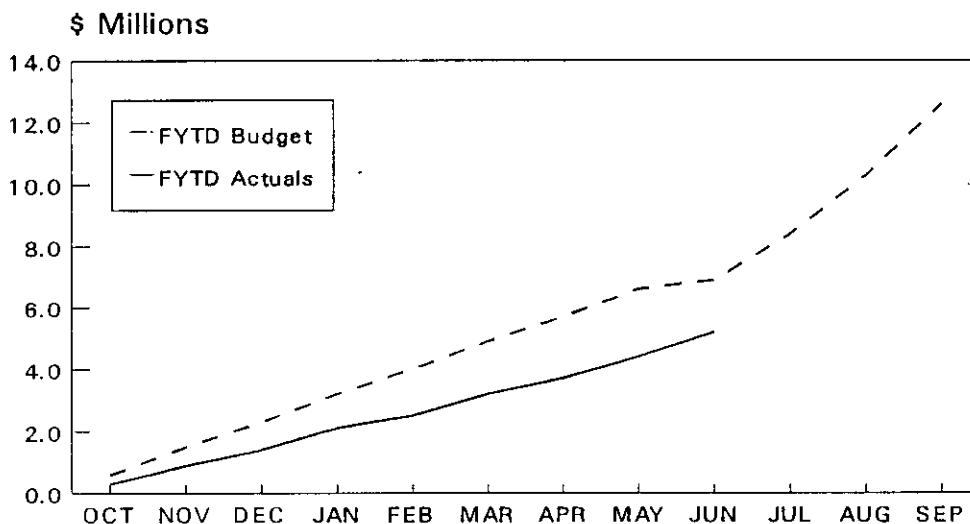
MILESTONE STATUS/PROBLEMS/ISSUES

- M-20-30, "Submit 303-M Oxide Facility Part B to Ecology and EPA"--RL submitted to Ecology a request to withdraw the Part A permit application for the 303-M Oxide Facility and a change request to delete the milestone. Ecology denied both. RL then prepared a notice of dispute and met with Ecology to begin resolution. During the February Project Managers' meeting, Ecology requested that RL consider integrating the RCRA closure and *Comprehensive Environmental Response Compensation and Liability Act* (CERCLA) past practice remediation, keeping the Part A permit application in place, and requesting relief from some of the administrative interim status requirements. Later, the Ecology Project

Manager directed RL to discuss this issue with the Ecology Kennewick Office. During a March 16, 1993, meeting, Ecology stated that its position is to conduct limited sampling, submit a RCRA closure plan, decontaminate and decommission the building, and leave the concrete slab for protection of Burial Ground 618-1. A letter is being prepared to transmit a Tri-Party Agreement issue resolution worksheet reflecting RL's position to delay any action for this TSD unit until the OU remediation is completed.

- M-20-50, "Submit 200 Area Effluent Treatment Facility Part B"--Work is proceeding on schedule to meet the milestone. The Part B permit application is now being prepared for certification by the President of the Westinghouse Hanford Company.
- M-20-42, "Submit Thermal Treatment (T-X-3) Part B to Ecology and EPA"--Development of the Part B application for this unit has identified several issues to be resolved before a technically accurate and complete application can be prepared. RL submitted a Tri-Party Agreement change package (M-20-92-7), delaying the December 31, 1993, submittal of this Part B permit application for 1 year, on June 9, 1993. EPA and Ecology have given verbal approval of the change package and signature approval is expected at the July Project Managers' meeting. Ecology has also agreed verbally with RL's intention to stop work on the preparation of the Part B application before it is signed off at the July Project Managers meeting.
- M-20-09, "Submit 216-B-3 Pond Closure/Postclosure Plan to Ecology and EPA"--A strategy and schedule is being prepared to combine remediation activities of the past practice OU 200-BP-11, with the closure activities of the 216-B-3 Pond System. This strategy supports the activities needed to administratively clean close the 216-B-3B and 216-B-3C lobes and partially close the 216-B-3 main pond and -3A lobe by June 1995. The three parties must decide on this strategy to allow for continued use of the 216-B-3B and -3C lobes to support liquid effluent disposal (216 Consent Order). This integration information was discussed with the Ecology Kennewick Office. Discussions with Ecology are continuing. A change request is being prepared for approval by the three parties on this proposed strategy.
- M-20-02, "Submit 616 Storage Facility Part B to Ecology and EPA"--RL received a formal Notice of Deficiency for this unit's permit application on June 16, 1993. This Notice of Deficiency specifically addressed the 616 Storage Facility waste analysis plan. It requests submittal of a revised waste analysis plan by July 30, 1993. Efforts are currently under way to resolve this Notice of Deficiency.
- M-20-08, "Submit 305-B Storage Unit Part B to Ecology and EPA"--RL received a formal request for this unit's permit application on June 16, 1993. This Notice of Deficiency specifically addressed the 305-B waste analysis plan. It requests submittal of a revised waste analysis plan by July 30, 1993. Efforts are now under way to resolve this Notice of Deficiency.

- Hanford Facility Dangerous Waste Permit (Hanford Facility Permit)--RL prepared a tabulation of updates in September 1992 for the *Hanford Facility Dangerous Waste Permit Application, Revision 0*, to submit to the regulators. Rather than submit the tabulation, RL requested that the updates be incorporated into the *Hanford Facility Dangerous Waste Permit Application, General Information, Revision 1*. This document supersedes the *Hanford Facility Dangerous Waste Permit Application, Revision 0*. The *Hanford Facility Dangerous Waste Permit Application, General Information* (DOE/RL-91-28, Rev. 1) submittal contains information consistent with the *Hanford Site Comments on the Draft Permit for the Treatment, Storage, and Disposal of Dangerous Waste for the Hanford Facility* (March 16, 1992) and the relatively few changes required to make the application current as of March 15, 1993. This document was certified and submitted to the regulators on June 25, 1993. RL, Ecology, and EPA met on June 10, 1993 to discuss the status of the issuance of the Hanford Facility Permit. They reestablished a positive dialogue; however, the schedule for reissuance by the EPA and Ecology of the revised Draft Hanford Facility Permit for public comment remains indefinite.



FYTD Budget	0.6	1.5	2.3	3.2	4.0	4.9	5.7	6.6	6.9	8.4	10.3	12.6
FYTD Actuals	0.3	0.9	1.4	2.1	2.5	3.2	3.7	4.4	5.2			
Spending Var	0.3	0.6	0.9	1.1	1.5	1.7	2.0	2.2	1.7			

Variance Explanation: The cost underrun is caused by continued delays in Ecology's review of Closure Plans, Part B Permit applications, and notice of deficiency responses resulting in less-than-planned support for followon revisions of these documents.

MAJOR MILESTONE: M-24-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. R. Thompson

BASELINE DATE: December 1993

PROJECTED DATE: December 1993

DESCRIPTION: Install RCRA groundwater monitoring wells at the rate of 29 in CY 1989, 30 in CY 1990, and up to 50 per year thereafter as specified by agreed interim milestones until all land disposal units and SSTs are determined to have RCRA-compliant monitoring systems

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-24-00E	Install a maximum of 50 wells for CY 1993.	12/93	12/93
M-24-30	Install two additional RCRA wells around Crib 1325-N (4 total).	12/93	12/93
M-24-31	Install two additional RCRA wells around the low-level burial grounds (81 total).	12/93	12/93
M-24-32	Install three additional RCRA wells around the Grout Treatment Facility (13 total).	12/93	12/93

ACCOMPLISHMENTS

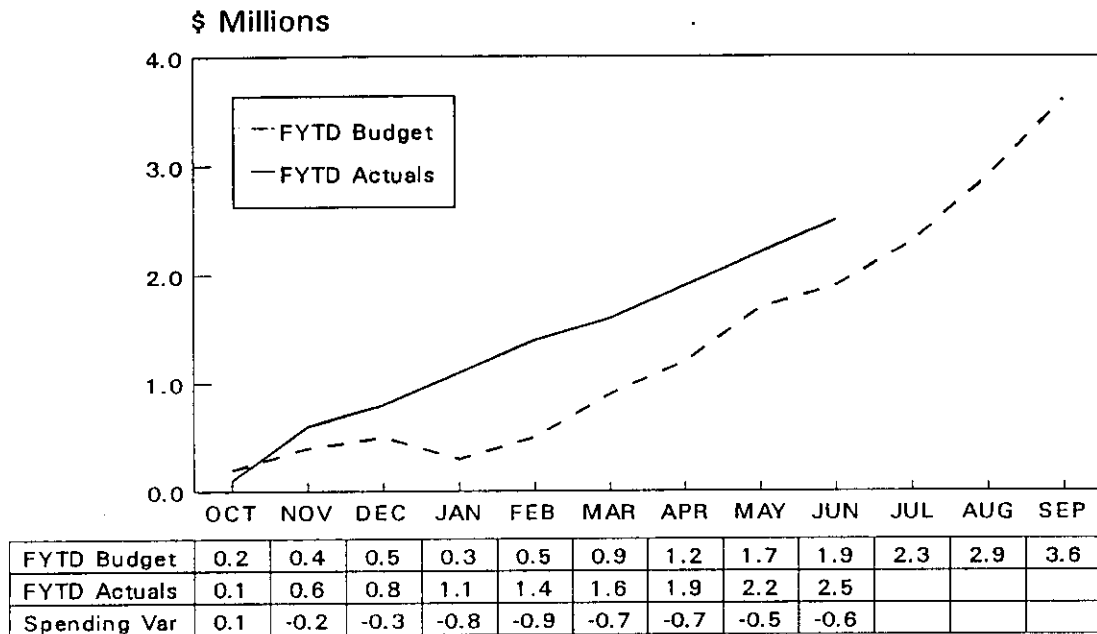
- Fixed price contractor arrived on site and ready to drill.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Proceed with drilling activities for CY 1993 wells.

MILESTONE STATUS/PROBLEMS/ISSUES

- After identifying seven locations for new wells in CY 1993, Ecology and RL agreed that monitoring to be accomplished by one of the wells originally proposed at Crib 1325-N can be accomplished by an existing well. Change request M-24-93-1, which reduces this milestone by one well, has been prepared and submitted to Ecology and EPA.



Variance Explanation: The spending variance through June is an artificial variance caused primarily by a reduction in the Line Item CAP 3A6A01 for Project W-017H, Well Installation. RL de-obligated \$750,000 of the project's funds with Project Authorization Mod 9 issued on December 22, 1992. This reduction was included in the cost account plan in January 1993 and, therefore, appears as a reduction in FY 1993. Adjusting for the de-obligation, the variance is within reporting tolerance and no explanation is required.

MAJOR MILESTONE: M-26-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: J. M. Hennig**MANAGER: C. J. Geier****BASELINE DATE: April 1993****PROJECTED DATE: April 1993**

DESCRIPTION: Submit annual Hanford land disposal restrictions (LDR) report in accordance with the LDR Plan to cover the period from April 1 through March 31.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-26-01D	Submit an annual Hanford LDR Report in accordance with the LDR Plan to cover the period from April 1 of the previous year through March 31 of the reporting year.	4/30/94	4/30/94

ACCOMPLISHMENTS

- None to report. Awaiting regulator comments on the 1993 LDR Report.

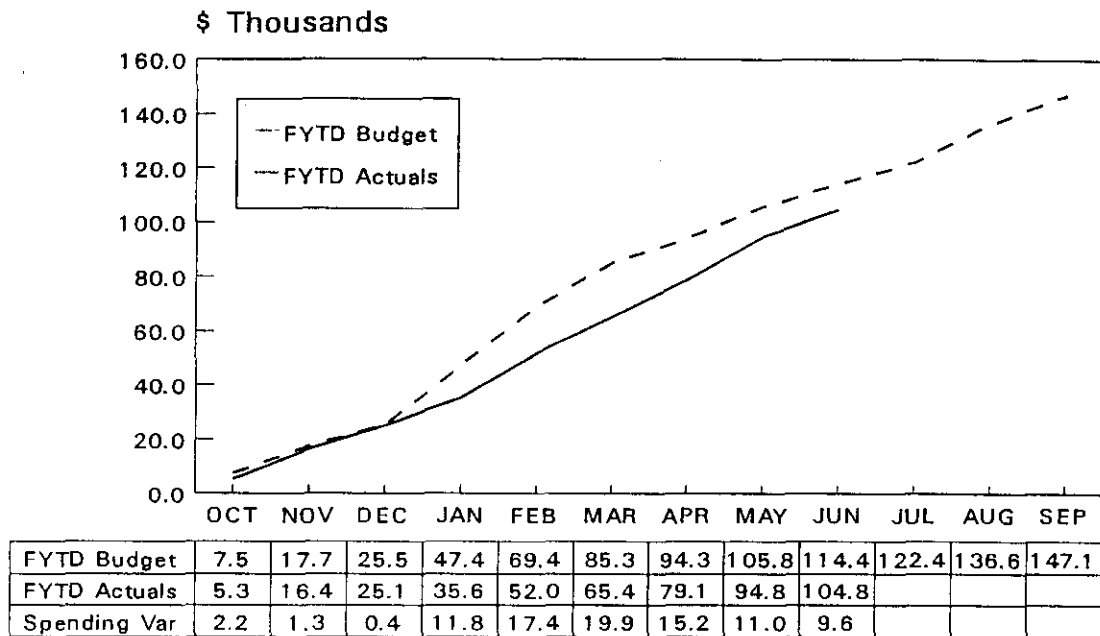
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Resolve any regulator comments on the 1993 LDR Report and receive regulator approval of the document.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

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Variance Explanation: None required. This chart is prepared in thousands to provide meaningful data. The Budget Baseline Summary table shows zero because it is in millions.

MAJOR MILESTONE: M-30-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 1993

PROJECTED DATE: September 1993

DESCRIPTION: Complete integrated general investigations and studies for the 100 Area.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-30-05	Complete installation of all-field instrumentation and initiate monitoring activities necessary to perform long-term aquifer river investigations.	9/93	9/93

ACCOMPLISHMENTS

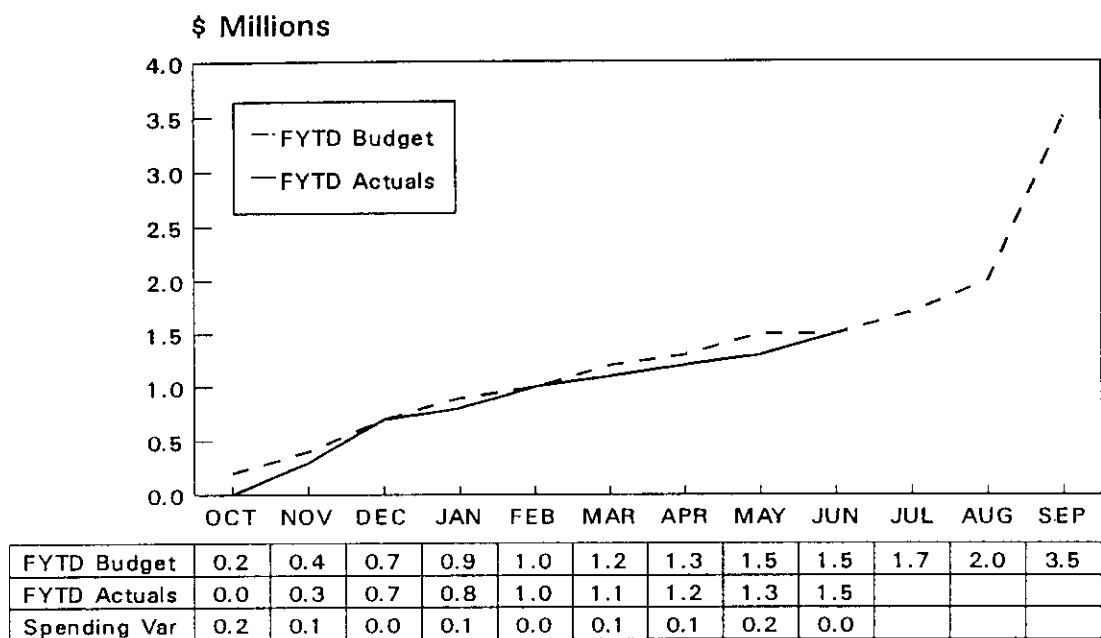
- Completed the transfer of approximately 23 automated water level recorders from the 300 Area to various 100 Areas. Each of the reactor areas now has an operating, core network of recorders.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Issue cultural resource reports in July.
- Analyze 2 years of data from recorders at 100-B, 100-H, and 100-F. Prepare plan to describe future monitoring activities. The data analysis and installation of groundwater monitoring equipment will satisfy milestone M-30-05.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.



Variance Explanation: None required.

MAJOR MILESTONE: M-31-00
STATUS FOR END OF MONTH: JUNE 1993

DOE DIRECTOR: R. W. Brown

MANAGER: R. L. Fritz

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Provide additional DST capacity. Construction complete.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-31-02	Recommend additional tank milestones.	09/30/92	08/31/93

ACCOMPLISHMENTS

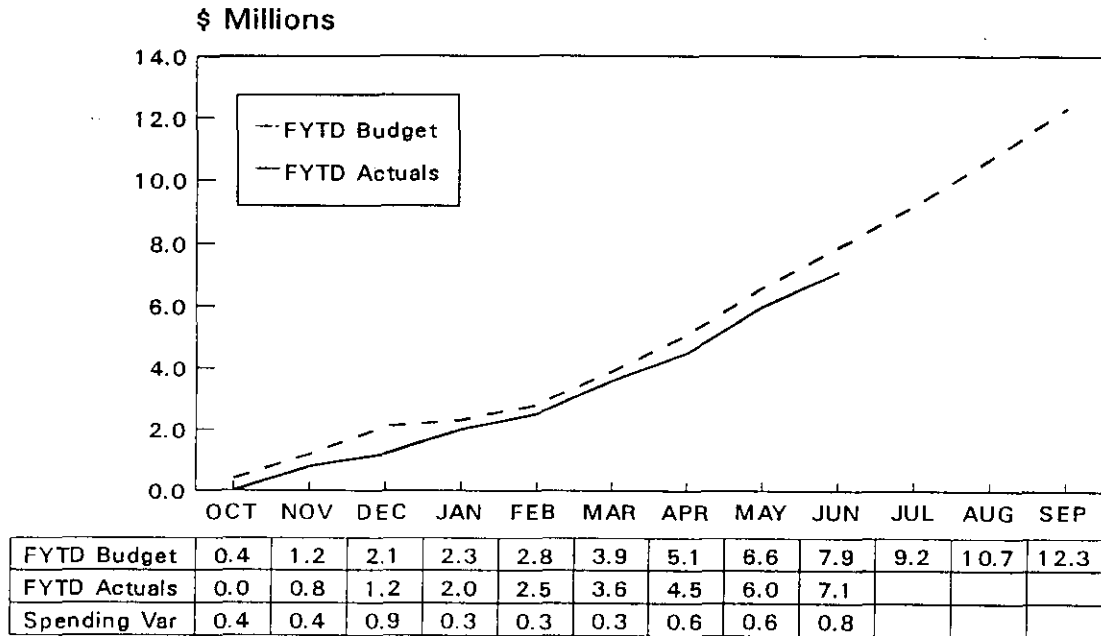
Nothing significant to report.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Resolve the issues associated with the Ecology denial of change request M-31-92-03.
- Continue preliminary design of the New Multi-Function Waste Tank Facility.

MILESTONE STATUS/PROBLEMS/ISSUES

- Ecology reviewed meeting minutes for the August 1992 Tri-Party Agreement milestone management review meeting and concluded that the delay in submitting milestone M-31-02, "Recommend Additional Tank Milestones," had been discussed at the Project Managers' meeting well in advance of the actual submittal of the change request. Ecology verbally recommended that the change request be accepted as written.
- RL recommended to HQ to rescope this project. The rescope would eliminate features not directly supporting the primary objectives of waste storage, confinement, and dilution. Cost savings would be used to add additional tank capacity for resolution of safety issues.



Variance Explanation: The variance is a result of two factors: (1) RL has directed Westinghouse Hanford Company/Kaiser Engineers Hanford to work on a limited workscope pending outcome of the recommendation to HQ to rescope the tanks functional requirements and (2) Kaiser Engineers Hanford was unable to ramp up as fast as had been planned and is now running slightly behind schedule on their current workscope.

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